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AGGELER & MUSSER SEED CO.

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SEEDS

1934 FORTY-FIRST ANNUAL CATALOG

VEGETABLE
SEED TRIALS
HORTICULTURE

General Directions for Ordering

NAME and ADDRESS—Be sure that your name and address are written plainly. Write in the proper place on the order blank Post Office, County, Rural Delivery, Box Number and nearest Express Office.

ORDER EARLY—We endeavor to ship all orders within 24 hours after we receive them, but during the rush season from February to April delays are sometimes unavoidable. If patrons can anticipate their wants and order early it will be to our mutual benefit.

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PARCEL POST—Unless otherwise stated, we pay postage on all seeds and bulbs quoted in this catalogue. On orders of larger quantity at "not prepaid" prices stated in the catalogue you pay the postage, express or freight. In such cases it will be necessary for you to send postage extra if you want it by parcel post, but if it is to be sent by freight or express you can pay the transportation charges at your freight or express office when you receive the goods. If you do not know the zone you are in from Los Angeles your postmaster or R. F. D. carrier can tell you. Parcel Post rates apply on weights up to 70 pounds in all zones. Parcel Post rates are usually cheaper than express, with the added advantage of having the parcel delivered to your door.

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FOREIGN PARCEL POST—We pay postage on all Flower Seeds, Vegetable Seeds and Tree Seeds up to 10 lbs. For Field and all other seeds and for other articles listed in this catalogue add 14¢ per lb. for postage.

ERRORS—While we exercise the utmost care in filling orders we find that occasionally errors occur, in which event we ask you to please notify us promptly and we suggest that you keep copy of your orders for comparison.

PRICES—In the event of unforeseen circumstances prices are subject to change without notice.

NON-WARRANTY: Note—There are so many contingencies to be encountered in growing plants from seed and in setting out plants that are dependent on the weather and other conditions over which we have no control, that success in planting is not altogether dependent on the seed or plant. We will send out only seed which we believe will grow and produce the kind of plant and variety represented, but:

Aggeler & Musser Seed Co. gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop.

PARCEL POST ZONES FROM LOS ANGELES
Arizona, Utah, Nevada—mostly in the 4th zone.
Washington, Oregon, Idaho, Montana, Wyoming and Colorado—mostly in the 5th zone.

New Mexico and Texas—in 5th and 6th zones.
Oklahoma, Kansas and Nebraska—mostly in 6th zone.
Florida and South Eastern States—in 8th zone.

We send A & M California grown seeds all over the world. They produce a bit of sunshine wherever they grow.

Parcel Post Zone Rates

Wt. in lbs.	Zone 1 & 2	Zone 3rd	Zone 4th	Zone 5th	Zone 6th	Zone 7th	Zone 8th
1	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.14	\$0.15
2	.10	.11	.14	.17	.19	.23	.26
3	.11	.13	.17	.22	.26	.32	.37
4	.12	.15	.21	.27	.33	.41	.48
5	.13	.17	.24	.33	.40	.50	.59
6	.14	.19	.28	.38	.47	.59	.70
7	.15	.21	.31	.43	.54	.68	.81
8	.16	.23	.35	.49	.61	.77	.92
9	.17	.25	.38	.54	.68	.86	1.03
10	.18	.27	.42	.59	.75	.95	1.14
11	.19	.29	.45	.64	.82	1.04	1.25
12	.21	.31	.49	.70	.89	1.13	1.36
13	.22	.33	.52	.75	.96	1.22	1.47
14	.23	.35	.56	.80	1.03	1.31	1.58
15	.24	.37	.59	.86	1.10	1.40	1.69
16	.25	.39	.63	.91	1.17	1.49	1.80
17	.26	.41	.66	.96	1.24	1.58	1.91
18	.27	.43	.70	1.02	1.31	1.67	2.02
19	.28	.45	.73	1.07	1.38	1.76	2.13
20	.29	.47	.77	1.12	1.45	1.85	2.24
21	.30	.49	.80	1.17	1.52	1.94	2.35
22	.32	.51	.84	1.23	1.59	2.03	2.46
23	.33	.53	.87	1.28	1.66	2.12	2.57
24	.34	.55	.91	1.33	1.73	2.21	2.68
25	.35	.57	.94	1.39	1.80	2.30	2.79
26	.36	.59	.98	1.44	1.87	2.39	2.90
27	.37	.61	1.01	1.49	1.94	2.48	3.01
28	.38	.63	1.05	1.55	2.01	2.57	3.12
29	.39	.65	1.08	1.60	2.08	2.66	3.23
30	.40	.67	1.12	1.65	2.15	2.75	3.34
31	.41	.69	1.15	1.70	2.22	2.84	3.45
32	.43	.71	1.19	1.76	2.29	2.93	3.56
33	.44	.73	1.22	1.81	2.36	3.02	3.67
34	.45	.75	1.26	1.86	2.43	3.11	3.78
35	.46	.77	1.29	1.92	2.50	3.20	3.89
36	.47	.79	1.33	1.97	2.57	3.29	4.00
37	.48	.81	1.36	2.02	2.64	3.38	4.11
38	.49	.83	1.40	2.08	2.71	3.47	4.22
39	.50	.85	1.43	2.13	2.78	3.56	4.33
40	.51	.87	1.47	2.18	2.85	3.65	4.44
41	.52	.89	1.50	2.23	2.92	3.74	4.55
42	.54	.91	1.54	2.29	2.99	3.83	4.66
43	.55	.93	1.57	2.34	3.06	3.92	4.77
44	.56	.95	1.61	2.39	3.13	4.01	4.88
45	.57	.97	1.64	2.45	3.20	4.10	4.99
46	.58	.99	1.68	2.50	3.27	4.19	5.10
47	.59	1.01	1.71	2.55	3.34	4.28	5.21
48	.60	1.03	1.75	2.61	3.41	4.37	5.32
49	.61	1.05	1.78	2.66	3.48	4.46	5.43
50	.62	1.07	1.82	2.71	3.55	4.55	5.54
55	.68	1.17	1.99	2.98	3.90	5.00	6.09
60	.73	1.27	2.17	3.24	4.25	5.45	6.64
65	.79	1.37	2.34	3.51	4.60	5.90	7.19
70	.84	1.47	2.52	3.77	4.95	6.35	7.74

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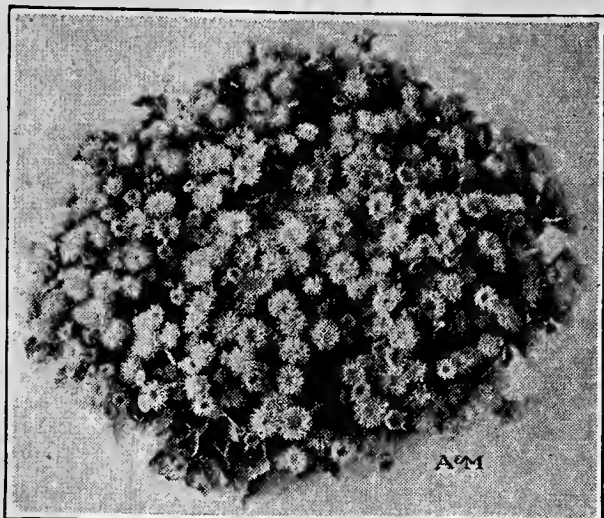
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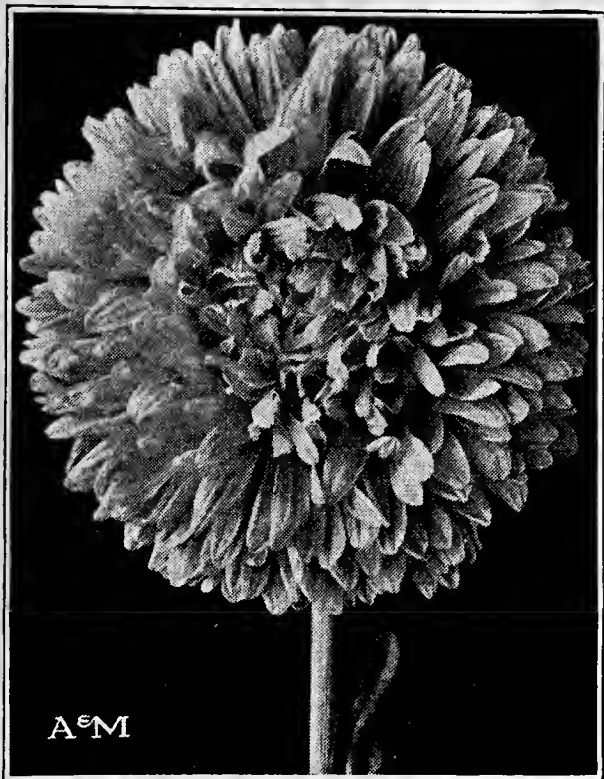
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In accordance with the California Retail Sales Tax of 1933 will CALIFORNIA customers kindly add 2½% of order: 1c to 14c—00; 15c to 59c—1c; 60c to \$1.02—2c; \$1.06 to \$1.49—3c; \$1.50 to \$1.90—4c; \$1.91 to \$2.30—5c — plus 1c for each additional 40c.

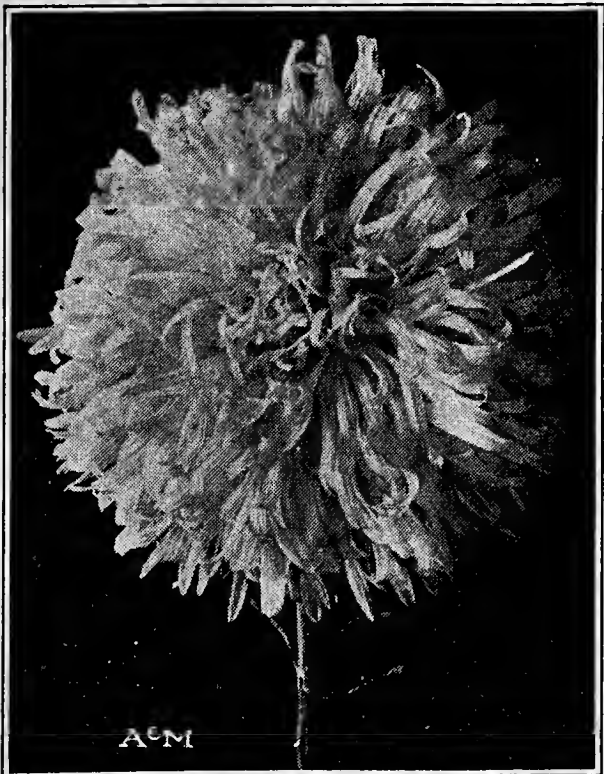
New and Distinctive Flower Seeds for 1934



Ageratum—Blue Cap



Peony Aster—Deep Rose



Aster—Super Giant Los Angeles

Ageratum

BLUE CAP—An extremely dwarf plant, compact form, producing a mass of rich deep blue flowers. Height averages 6 inches; an excellent low border type. Pkt. 20c.

Anchusa

ITALICA LISSADELL — Beautiful gentian blue flowers produced in long graceful sprays for cutting. In fertile soil it will grow to about 6 feet in height. Pkt. 15c.

Aquilegia

LONG SPURRED BLUE SHADES—Now you may have the very large flowered Columbine in the long-sought-for blue shades. Pkt. 20c.

SNOW QUEEN—The best long spurred pure white Columbine. Very large flower and fragrant. Pkt. 20c.

Aster

(A favorite with all flower lovers)

LARGE PEONY FLOWERED DEEP ROSE — This lovely Aster is highly desirable for cutting purposes. The flowers are large with incurving petals. The stems are long, large and free from short branches. They remain in good condition a long time on the plant or when cut. The deep rose color is very striking. Pkt. 25c; $\frac{1}{8}$ oz. 45c.

SUPER GIANT LOS ANGELES — The first variety of a new giant species. The color is a delicate shell-pink. In form the flower somewhat resembles the popular California Giant; outer petals are long and slightly curled at the tips, center is full double with short petals artistically curled and laced. Stem is very large and long. Under field culture this year they grew to a height of 3 to 4 feet. Pkt. 25c.

NEW GIANT CALIFORNIA SUNSHINE ASTER—Everyone who sees the Aster admires it. The flowers are very large in shades of pink, rose, blue and lavender, with centers of contrasting colors. Stems are long and have few short branches. Because it is new, only about 50% of the plants will bear true Sunshine flowers. The remainder may produce some singles and doubles, but most of them will be very satisfactory. Pkt. 25c.

A & M FLORIST'S SPECIAL SINGLE—An array of bright and striking colors in lovely single Asters. Petals are wide and overlapping. The center disc and petals are usually of contrasting colors. These will make a colorful spot in your garden and provide gorgeous long-stemmed flowers for cutting. They keep well when cut and do not bruise easily. Pkt. 15c; $\frac{1}{4}$ oz. 55c.

[*Here are three good Asters for home gardeners who are fond of unusual flowers. We suggest them with a surety that they will please you.*]

CATTLEYA—An Ostrich Feathered type flower in a pleasing orchid shade. We know of no other Aster this color. Plants are of branching habit and grow about 18 inches high. Wilt-resistant. Pkt. 25c.

AURORA—A dwarf Sunshine Aster type, with delicate blue petals and contrasting yellow centers. Grows to a uniform height of about 2 feet; is branching and produces many flowers. Pkt. 25c.

LILLIPUT FLOWERED ASTER—Plants about 15 inches high, producing an abundance of small quilled ball-shaped flowers, with no ray or guard petals. They will keep well after cutting and are excellent for small bouquets, or bowl arrangements. Mixture of many colors. Pkt. 20c.

New and Distinctive Flowers—Continued

Calendula

CHRYSANTHA—(Sunshine)—A new form quite tall and of graceful habit. Flowers are of a bright golden canary yellow, with rather long incurving center petals. It will give excellent service for cutting and prove very ornamental in the garden. Pkt. 25c.

GOLDEN BEAM RADIO—Golden yellow color in the same form as the orange colored Radio. A very satisfactory bouquet flower. Pkt. 25c.

MASTERPIECE—Rich golden orange flower with a contrasting dark center. Large, good stem and a bright clear color. Pkt. 25c.

New Annual Canterbury Bells

(Now in separate colors)

This is the only species of Canterbury Bells known to bloom the first year from seed. With proper culture and favorable weather it should bloom within six months from the time seed is sown. The flowers are single, bell-shaped, of medium size and produced in graceful spike form. Six to eight spikes from one plant, grow to a height of about 2½ feet.

ANNUAL SINGLE ROSE Pkt. 35c
ANNUAL SINGLE DARK BLUE Pkt. 35c
ANNUAL SINGLE MIXED Pkt. 25c

Carnation

ENFANT DE NICE—An improved strain producing fine large flowers and coming about 75% true from seed. This Carnation is considered one of the very best of the annual group. It is recommended for garden display and for cutting. Pkt. 25c.

Cheiranthus

ALLIONI—(Siberian Wallflower)—Not exactly a new flower creation but one that should be better known among home gardeners. The flowers are a dazzling fiery orange in color, and have an exceptionally long blooming season. Plants grow about 1½ feet high and when full grown have an average spread of 15 inches. In Southern California, seed may be sown in the fall. Pkt. 10c; ⅛ oz. 25c.

Dahlia

COLTNESS SCARLET GEM—Grow this lovely Dahlia from seed. The flowers are large, single, in bright shades of scarlet. The plants grow to a uniform height of about 2 feet producing an abundance of blooms. It is very desirable for mass effect or for individual plant specimens. Under favorable conditions plants will bloom in 60 or 70 days from seed. Sow in flats or beds and transplant. Pkt. 35c.

Dianthus

All Dianthus are easily propagated from seeds. There are many beautiful varieties which are colorful in the garden and provide exquisite flowers for bowl arrangements. From trials this season we have chosen the following varieties as outstanding in form and color.

HEDDEWIGII NOBILIS—(Royal Pinks)—Large, single fringed flowers, in a great range of colors. Height 1 foot. Pkt. 25c.

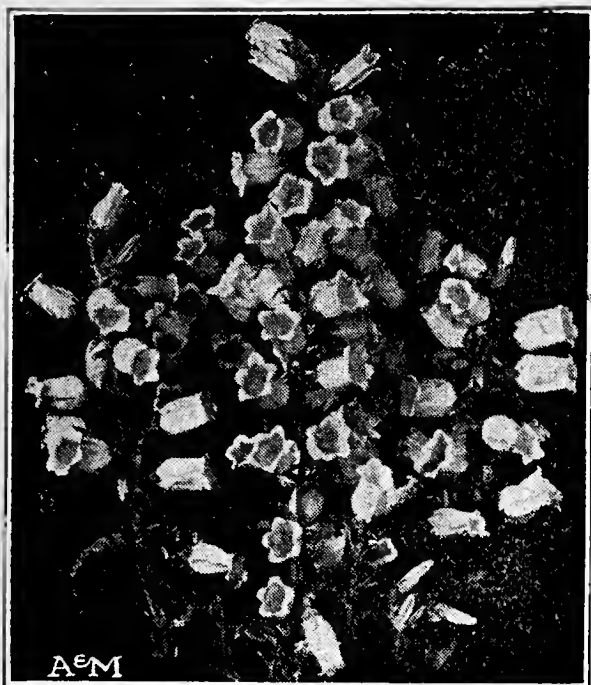
PUNCTATUS—(Princess Pinks)—Grows 1 foot high producing fringed flowers with colors mingled in attractive combinations. Their distinctive resemblance to old-fashioned glazed chintz adequately describes their unique quaintness. Pkt. 35c.

SALMONEUS—One of the most unanimously popular of the Dianthus in the trial garden this season. It grows about 10 inches high, producing medium sized flowers in pleasing shades of salmon. Pkt. 25c.

VESUVIUS—Vivid orange-scarlet flowers on erect stems about 10 inches high. If you like brilliant color, Vesuvius should please you. Pkt. 25c.

Eschscholtzia (Calif. Poppy)

NEW SALMON BEAUTY DOUBLE—One of the most charming of the Eschscholtzias; color light salmon; flowers semi-double and when first open the petals are slightly ruffled. For cut flowers they should be cut in bud form. Pkt. 20c.



Annual Canterbury Bell



Cheiranthus Allioni



Dianthus Punctatus

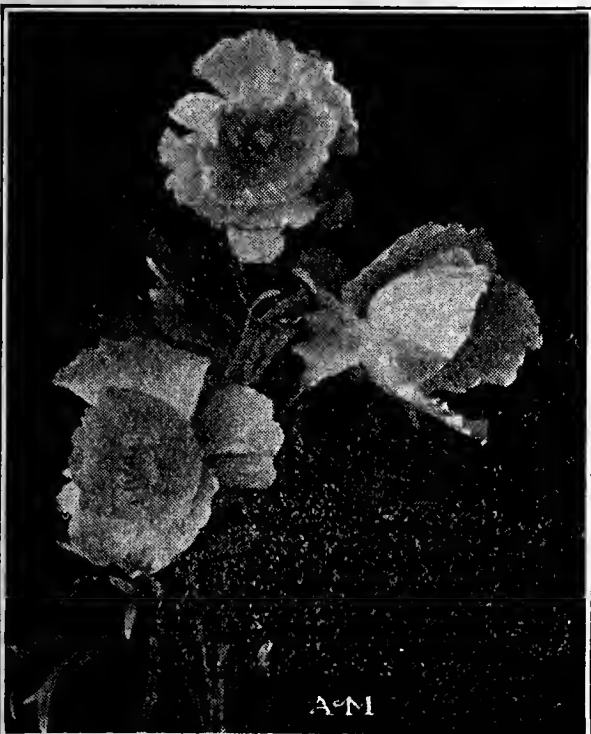
New and Distinctive Flowers—Continued



Godetia—Duke of York



Lupin—Hartwegi Giants



Hunnemannia—Sunlite

Delphinium

SUNBEAM HYBRIDS—In the past few years a great improvement has taken place in this unexcelled garden flower. By years of careful selection we have developed Sunbeam Hybrids into a desirable garden strain with a percentage of plants bearing rather loose tapering spires with the florets well distanced on the stem, and others more compact with florets touching and overlapping. The flowers are uniformly large, in shades and combinations of clear blue, mauve and purple, sometimes overlaid with a glistening silvery sheen. With proper culture many plants of Sunbeam Hybrids may grow 4 to 6 feet high. Pkt. 25c.

CAMBRIDGE BLUE—A new annual Chinensis-type Delphinium growing 2 to 3 feet high. In our trials this year this strain proved its value as an annual cut-flower variety. The color is a clear light blue. Pkt. 20c.

HOLLYHOCK DELPHINIUM—Tall spires with large florets densely placed on the stem, usually overlapping. A rich assortment of light and dark shades. Pkt. 20c.

Geum

PRINCE OF ORANGE—This new Geum comes to us highly recommended by the originator who describes it as a rich orange color, a sturdy plant and a most desirable variety. Pkt. 50c.

Godetia

DUKE OF YORK—Godetia is an excellent garden flower, and is particularly good for cutting. There are several buds at the terminal with the flower and as the old flower fades, a new bud opens. Duke of York is a rich scarlet and very attractive. Pkt. 15c.

Gypsophila

LONDON MARKET—A greatly improved strain with large flowers and pure white overlapping petals. Commercial growers who grew London Market this season prefer it to any other. Annual. Pkt. 15c.

Heuchera (Coral Bells)

SANGUINEA SPLENDENS—(New)—A bright vermillion color that is a great improvement over the old varieties. Commercial growers, landscapers, etc. will find this a fine subject which may be put to many uses. It has a long blooming season and the flower spires stand well above the foliage. Height 18 inches. Pkt. 25c.

Hunnemannia

SUNLITE—These attractive tulip-shaped flowers are unusual for their extra row of petals which creates the impression of an open blossom, after the flower has folded up for the night. Such an advantageous feature makes it desirable for day and night decorative uses. When cut it will keep fresh over a period of several days which, of course, makes it an excellent flower for vases, etc. Pkt. 25c.

Larkspur

ROSAMOND (New)—A pure rose colored shade which is new and holds its color remarkably well. Pkt. 25c.

Lupin

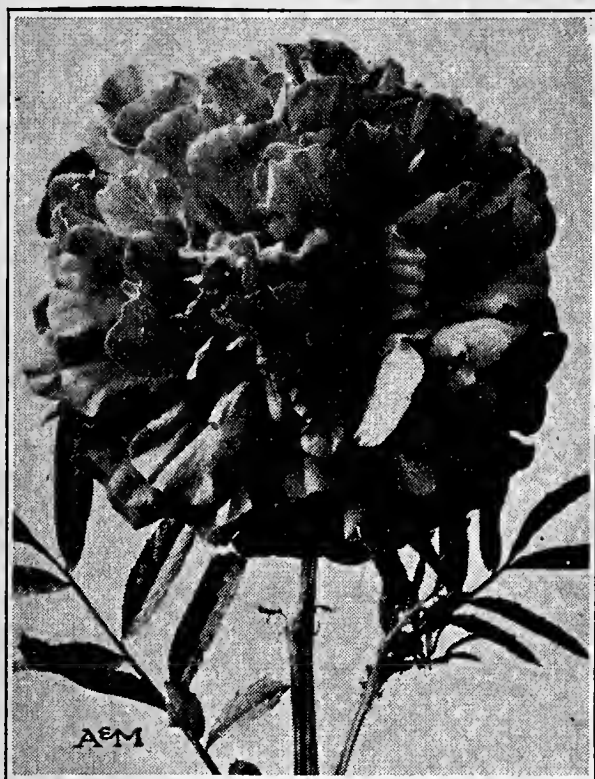
HARTWEGI GIANTS MIXED—A new and improved strain of annual Lupins. They grow 3 to 4 feet high and under proper culture will produce four to six long spires to a plant. The flowers are very large, uniformly and densely placed on the stems, producing very satisfactory flowers for garden or for cutting. They are easily and quickly grown from seed. Mixed colors. Pkt. 25c.

Marigold

A & M SPECIAL AFRICAN ORANGE—This is a genuine improved strain of exceptionally large flowers. Florists plant it for cut flower purposes. By disbudding and disbranching, large stems averaging 3 feet may be obtained. This strain grows a large percentage of full double flowers and does not tend to produce semi-doubles. You may expect about 25% of plants to bear single flowers. These may be discarded when the first bloom appears and the remaining plants will have room to grow and produce a substantial number of perfect type blooms. Pkt. 35c.

New and Distinctive Flowers—Continued

Marigold



Marigold—Guinea Gold



Marigold—Dwarf French Monarch



Poppy—Sweet Briar

GUINEA GOLD—The flowers of this exquisite Marigold are loosely ruffled, semi-double and of medium size. The color, a brilliant golden orange, is not found in any other Marigold. As a cut flower it is ideal, especially for bowl arrangement if grown without disbranching. In tests for keeping qualities, they have been found to keep in good condition for eight days after cutting. A small percentage of plants will undoubtedly bear off type flowers. Through scientific selection it is hoped the type will eventually be standardized. Pkt. 20c.

DWARF FRENCH MONARCH—During the blooming season when we check the trials and write catalog descriptions it is difficult to find a sufficient number of adjectives to describe the many beautiful flowers. Also it is difficult to refrain from having them all "best" varieties. Therefore we shall only describe this Marigold as dwarf compact habit of growth, tight, double flowers in a color range including orange, bronze, yellow and mahogany. Most of the flowers have two or more shades in stripes or spotted effects. We recommend it and hope you will try it. Pkt. 20c.

DWARF FRENCH GOLD STAR—Grows about 10 inches high. Flowers are deep golden yellow with bronze stripes or some of them may be brown with yellow stripes. This and other French Marigolds are recommended for winter bloom in Southern California and for rock gardens. Pkt. 20c.

Pansy

A & M ENGLISH GIANT MIXTURE—Interesting changes frequently occur in Pansy styles and this one is exceptionally beautiful. The flowers are very large and come in fascinating bright color combinations. The characteristic pansy face predominates as well as the blotchy type and all have long stems. By growing Pansies from seed you will have the delight of the best and largest flowering varieties. Sow seeds on the surface of a well prepared bed and barely cover with fresh fine sand. Keep moist but not soaked. A sprinkle of sulphur at time of sowing will be beneficial. Pkt. 35c.

Pentstemon

COBAEA—A new selection of Pentstemon which proved outstanding in the trials this season. Vigorous graceful spikes standing 2 to 3 feet high, bearing super trumpet-shaped flowers averaging 2 inches in diameter. Plants branch at base producing many spikes with a profusion of blossoms open at the same time. Color varies slightly with lilac shades predominating. Foliage is dark green and glossy. This is a good cutting variety with excellent keeping qualities. Pkt. 25c.

Petunia

HYBRIDA GOLDEN ROSE—For mass bedding this plant is one of the most desirable both for color and habit of growth. Flowers are quite large, abundantly produced, and of a brilliant shade of rose with yellow throat. The old blossoms hold their color well, presenting an exceptional mass effect. Pkt. 20c, 1/8 oz. 45c.

Poppy

SWEET BRIAR—A beautiful deep rose-pink, full double Shirley Poppy which very greatly resembles a large double Begonia. It grows an average height of 3 feet; is a most attractive flower and a delightful color. Pkt. 20c.

ICELAND, SANDFORD'S GIANT—Great improvements have been made in Iceland Poppies during the past few years but this one excels all others in size of flower, length of stem and range of color. This garden favorite has a long blooming season, the flowers possess excellent keeping qualities, and now with the much improved stem, it seems destined to become a commercial cut flower. Sow seeds where the plants are to remain and in drills for best results. Pkt. 25c.

Silene

SIBERICA—A new dwarf succulent coming to America from the Royal Horticultural Society and highly recommended for rock gardens or low borders. The blossoms are brilliant rose in Verbena-like umbels and are produced in abundance. It grows 1 foot high with a lacey decorative foliage. Pkt. 25c.

New and Distinctive Flowers—Continued

Rock Garden Favorites



Venidium Fastuosum

ALYSSUM—ROCK GARDEN PERENNIAL MIXED—Contains several rare yellow varieties easily grown from seeds. When flowers begin to fall a new crop may be obtained by cutting the plant back. Pkt. 20c.

CANDYTUFT—MINIATURE GEM—A dainty miniature hyacinth flowered Candytuft. Very desirable for rock gardens and low borders. Pkt. 25c.

DIANTHUS—ROCK GARDEN RARE SPECIES MIXED—Many extraordinary and beautiful species are included in this mixture of popular rock garden subjects. A great variety of attractive color combinations are featured. Pkt. 35c.

ROCK GARDEN ANNUALS MIXED—A splendid mixture of many dwarf annuals that blossom quickly from seed and provide continuous bloom for a long season. Pkt. 25c.

ROCK GARDEN PERENNIALS—This delightful mixture is made up of more than fifty varieties of rock garden perennial seed. Pkt. 25c.

Stocks

BISMARCK, BUTTERCUP—This is a genuine improvement in yellow Stocks. The plant branches low, bearing many long spikes of exceptionally large flowers. By years of careful breeding and selecting, the A & M strain of Stocks has been fixed to produce a great percentage of plants bearing double flowers. Seedlings should be transplanted to the garden when small and they should be taken from the seed bed as they come, large and small. Pkt. 25c.

BISMARCK, SHASTA—A very large glistening white flower. Plants are branching with long spikes. The most desirable white Stock. Pkt. 25c.

Venidium

FASTUOSUM—This plant thrives in Southern California where the climate is similar to its natural habitat. Its growth averages 2 to 3 feet high, has grey silken foliage and deep orange composite flowers with a purple-black center zone inside the ray. Flowers grow to 4 or 5 inches in diameter. They stand well above the foliage and effect a colorful display. Sow seeds in open ground where they will obtain full sun. Pkt. 25c.

Verbena

BEAUTY OF OXFORD HYBRID—A popular and most brilliant rose-colored Verbena, which ranges from shades of rose-pink to rose-red. Individual flowers are very large and when placed flat on a half dollar will completely cover it. Pkt. 35c.

FIREBALL—Dwarf bright scarlet Verbena forming a compact erect plant 6 inches high, which is completely covered with flowers. Pkt. 25c.

LAVENDER GLORY—Large lavender flowers with small cream center. Being a hybrid a few off-color blooms may be expected. This is one of the best Verbenas. Pkt. 25c.

Zinnia

SCABIOSA FLOWERED—A new Zinnia much resembling the Scabiosa. Flowers are 2 to 3 inches across, in many desirable colors and with stems suitable for bowl arrangement and small bouquets. A few off type may be expected. Mixed colors. Pkt. 25c.

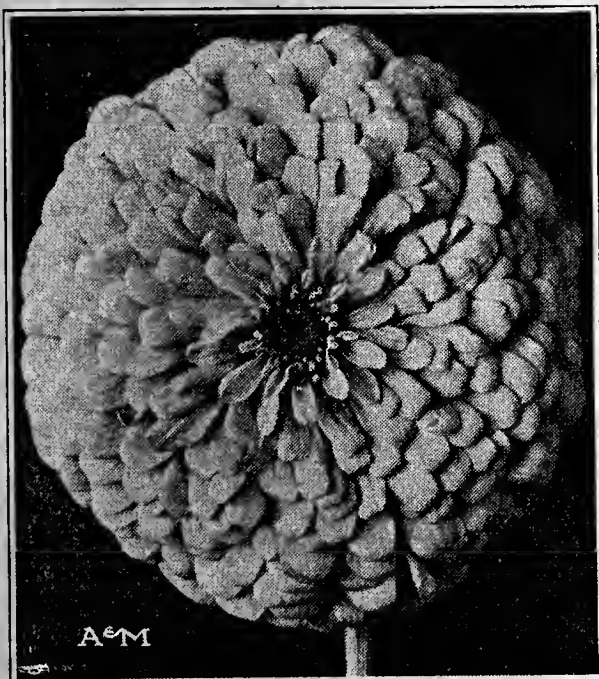
A & M California Giant Zinnias

(Mammoth Type)

Outstanding as a new strain and the most graceful of the large flowering Zinnias. A distinct contrast in form is a feature of this species and it is readily accepted as a vast improvement of type. Large flowers and exceedingly long stems make this Zinnia very desirable for cut flower purposes. The range of color is splendid for home garden and florists' use. Habit of growth is robust, low-branching with vigorous laterals. Our test trials this year prove New California Giant Zinnia the most desirable large flowered Zinnia grown. Mixed colors. Pkt. 25c; 1/4 oz. 65c; oz. \$1.85.



Zinnia—Scabiosa—Flowered



Zinnia—New Calif. Giant

WILLIAM B. EARLY, President



FRED C. McNABB, Vice-President

AGGELER & MUSSER SEED CO.

GENERAL OFFICES, WAREHOUSES AND MAIL ORDER DEPT.

1934 East 15th Street ♦ Los Angeles, California

♦♦♦ STORES ♦♦♦

Los Angeles, Calif., 750 South Spring Street
Brawley, Calif., 131-135 North Sixth Street
Gardena, Calif., 838 West 165th Street

Los Angeles, Calif., 767 Central Avenue
Santa Maria, Calif., 115 West Church Street
Salinas, Calif., 32 West Gabilan Street

A & M RELIABLE VEGETABLE SEEDS

A & M Asparagus

Culture Drill the seed thinly in rows fifteen inches apart during March or April. Thin out to two inches apart for strong plants. Exercise great care in preparing a field because it will last many years.

Transplant during February setting the roots one foot apart, in furrows four feet apart. Carefully spread out to avoid matting. The furrows should be ten or twelve inches deep and run North and South to get the sun on both sides of the rows. Cover the roots about three inches and as the plant grows throw the soil toward the plant. Each year when the berries are red, cut the plants close to the ground and burn, then dust the entire field with Anchor Brand sulphur, to destroy any germs of mildew, red spider or rust that may be there. Keep a mulch over the row with a harrow, but cultivate more deeply between the rows. Use stable manure liberally and hill up a little higher each year. Irrigate freely during the growing period. Three pounds of seed is sufficient to plant an acre.

Mary Washington This is the latest introduction of the rust resistant varieties and the best with the advantage over all other varieties of being earlier, which means so much to the grower. (Per Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Argenteuil An excellent variety for the canner and early shipper. This variety is now more extensively grown by large planters and shippers because it is more prolific and stands shipping better. Also its purple tinge is attractive, and its excellent flavor puts it on an equal with the Palmetto for table use. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Palmetto A popular variety for the home garden or for shipping. The sprouts are green and of delicious flavor. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Asparagus Roots Plant one year old roots and do not cut them back. When planting see that the roots are well spread out so that the soil will touch every part. If this is not done the plant cannot thrive.

Mary Washington Roots—(30c per doz.) (100, \$1.50) postpaid.

Palmetto Roots—(30c per doz.) (100, \$1.50) postpaid.



Italian Sprouting Broccoli

Artichoke

Culture Sow any time except during hottest weather, when all seed beds require special care. Soil should be a free, moist loam and seeds should be planted an inch deep. Plant out when six inches high in rows four feet apart each way. Save offsets from best plants for new supply, as artichokes never come true from seed; some will prove inferior. When planting seedlings, reject those with spiniest leaves.

Green Globe (Pkt. 5c) (oz. 60c) (1/4 lb. \$2.00) (lb. \$6.00) postpaid.

Artichoke Plants—20c each, 6 for \$1.10, doz. \$2.00. Postage extra. Plants only on sale from January to April.

PLANTING CHARTS will be found on pages 37, 94 and 95, and on the inside back cover.

MARKET GROWERS—NOTE!

A & M strains of Vegetable Seeds are unsurpassed. Market growers please write for special quotations.

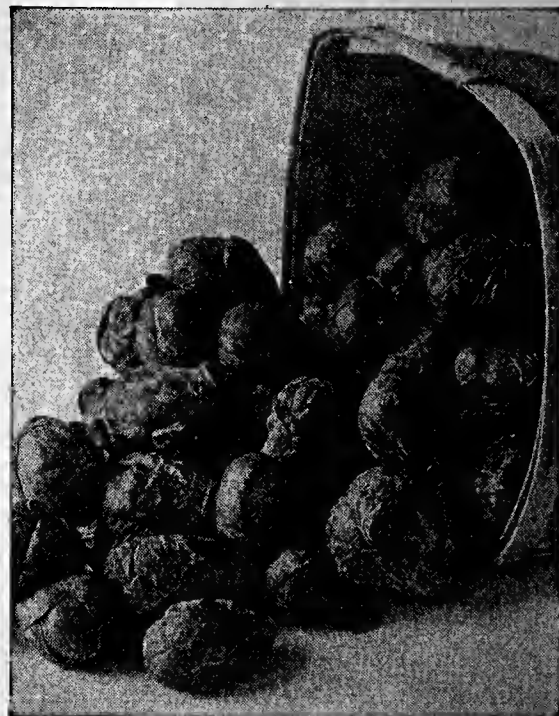
Broccoli

A & M St. Valentine The culture of St. Valentine Broccoli which is the cauliflower type of Broccoli is the same as for Cauliflower. For years we have been supplying commercial growers throughout Pacific Coast states with a special strain of seed which produces the very finest Broccoli with a beautiful dark green foliage and it is equal to any Cauliflower for market purposes. It matures usually after the Late Pearl Cauliflower is finished which is generally the last of March and April and is therefore in demand for extra late Cauliflower. It stands both hot and cold weather conditions. Seed should be sown from July to September 1. (Pkt. 5c) (oz. \$1.50) (1/4 lb. \$4.00) (lb. \$15.00) postpaid.

Italian Sprouting Broccoli Recently introduced from Italy, this variety is now in demand on the market. Sow in seed bed and transplant the same as for Cauliflower. For best results plant between July and October as the variety prefers cool weather. The plant forms a green cluster of buds which should be cut before opening into yellow blossoms. After head is cut, several sprouts develop forming smaller heads of equal value to first. The vegetable is cooked and served in same manner as Asparagus. (Pkt. 5c) (oz. 65c) (1/4 lb. \$2.00) (1 lb. \$6.50) postpaid.

Brussels Sprouts

A & M Medium Dwarf The culture for Brussels Sprouts is the same as for cabbage. It is a very highly esteemed vegetable and our strain of seed produces plants of dwarf, robust habit, and bearing in profusion the small compact heads. (Pkt. 5c) (oz. 30c) (1/4 lb. 90c) (1 lb. \$2.75) postpaid.



Brussels Sprouts

A & M Table Beets



Early Wonder

Culture Beets may be planted all the year where the temperature does not linger below 30 degrees. Sow the seed one inch deep in well prepared, moist soil in rows eight or ten inches apart, or on ridges same as lettuce. Drill 7 pounds of seed per acre. Thin out to one plant every three inches, and transplant the discarded plants in any convenient spot about the garden. Irrigate about every two weeks, unless the nature of the soil is such that more frequent irrigation is found to be necessary. Mulch the soil after each irrigation. Beets are very sensitive to acid soil conditions; therefore lime is beneficial. Beets are ready for use in ten weeks and continue in prime condition for another ten weeks. For the home garden sow one ounce of seed for 100 feet of row.

Early Wonder In size and shape this beet is very similar to Early Crosby. Because of its very bright color it has become very popular and is now one of the best market varieties. It is extremely early, of good uniform size, a bright red in color and with a very small top, which makes it most suitable for bunching. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Early Blood Turnip Of large growth. Flesh very tender and retains its blood-red color when cooked. On account of its tall leaves it is a favorite summer time beet with market gardeners. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Early Crosby One of the favorites among California gardeners who are producing beets for bunching. They are of uniform shape and size, with good color and medium top. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (1 lb. \$1.00) postpaid.

Detroit Dark Red This is an ideal beet for all purposes. It cannot be excelled for the table; free from all fibre and very sweet. It is one of the best for pickling or canning. Even the tops are good when pickled. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Early Flat Egyptian The Egyptian is a small, dark red, flat, smooth variety. It is sweetest and best for the table and is the market gardener's winter favorite on account of its beautiful appearance, earliness, and excellent flavor. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

A & M Stock Beets

Culture May be sown all the year round in drills sixteen inches apart. Thin out to stand one foot apart in rows. Keep well cultivated; 8 pounds of mangel, or 10 pounds of sugar beet seed will plant an acre and yield several tons of beets. For the breeder of hogs, small stock and poultry, we recommend the planting of beets. The Stock Beet is one of the finest fat and milk-producing crops we have today, and when fed in conjunction with grain they are worth nearly as much, pound for pound, as the grain itself.

Long Red Mangel The largest Stock Beet. Yields 40 to 50 tons to the acre. Will grow in land containing more alkali than any other beet. All stock except horses eat it readily. (Pkt. 5c) (lb. 60c) (10 lbs. \$5.50) postpaid.

Golden Tankard Mangel Contains more sugar and less water than any other Mangel. Rich in milk-producing qualities, hence a favorite with dairymen. Horses will eat it. (Pkt. 5c) (lb. 60c) (10 lbs. \$5.50) postpaid.

Klein Wanzleben (Sugar Beet.) This variety is without question the best in cultivation. Not the largest in size, but the richest in saccharine. It will fatten hogs as quickly as grain. (Pkt. 5c) (lb. 60c) (10 lbs. \$5.50) postpaid.

A & M SWISS CHARD

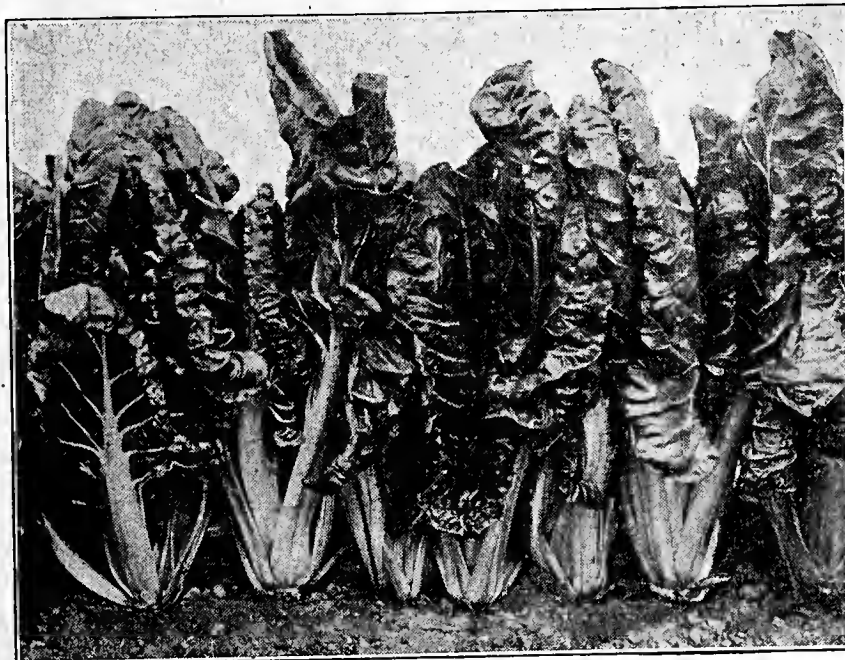
Culture Same as for beets; transplant 8 inches apart in rows 18 inches apart.

Grown for its leaves only; one of the best early greens. Cook the leaves as you do spinach and the stems in cream as asparagus. Leaves grow to enormous size, 20 inches to 2 feet in length. The plant is almost perpetual if kept trimmed, but it is better to have a new crop every year. The tender leaves make it a desirable plant for poultry greens; much more desirable than alfalfa, because it can be grown with less care and in any convenient place about the premises. Try it for your hens.

Lucullus Used extensively for poultry and is one of the most popular varieties for this purpose because of the tendency to grow to a good height and to produce longer leaves and more foliage. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (1 lb. \$1.00) postpaid.

White Swiss Chard Best suitable for table use, but is also used extensively for poultry feed. It has a large white rib, a rather smooth leaf, making it easily cleaned for table use. The large midrib is sometimes cooked as you would prepare asparagus. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (1 lb. \$1.00) postpaid.

Half Sugar Rose A distinct type of Sugar Beet, producing not only a good crop, but roots of giant size and richest food quality. It has yielded 55 tons per acre, several tons per acre more than the heaviest producers of other sorts on the list. They have a small top, and are easily trimmed. The roots are heavy, but are so easily harvested that they may be uprooted by a push of the foot. The flesh is white, solid, tender and very sweet and imparts a rich, pleasant flavor to dairy products when fed to milch cows. Also particularly good for fattening hogs. (Pkt. 5c) (lb. 60c) (10 lbs. \$5.50) postpaid.



White Swiss Chard

A & M Beans

Write for Quantity Prices

Culture During the early spring give sandy soil preference, but heavy soil in summer. When the ground is properly moistened and pulverized, plant bush beans one or two seeds every four inches, in rows twenty to twenty-four inches apart. If the soil is heavy, one-half inch is deep enough. Plant deeper in sandy soil. During the cool spring months plant shallow; during the hot summer months plant down to moist earth. Do not plant in soil that is too wet, nor irrigate immediately after planting, else the seed will rot. During the winter months do all irrigating in the morning, because the water from the pipe is warm and will help growth. When applied in the evening the water chills the plants, cools the soil, retards the growth and causes mildew. During hot summer days irrigate in the later afternoon. Never sprinkle beans. Plant 35-40 lbs. Bush Beans per acre and 30 lbs. Pole Beans per acre.

To prevent mildew dust frequently when the sun is shining with Anchor Brand Sulphur while the plants are young. Mildew may be prevented but is difficult to cure.

Sulphur will not cure, but will arrest and prevent mildew.

GREEN POD BUSH BEANS

A & M Stringless Green Pod One of the best varieties for the first early spring planting. It is very prolific and tender, a great favorite with market gardeners, for a quick maturing crop. Plant from April 1st until Aug. 1st. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Full Measure A splendid early bean which has gained much prominence. The pods are longer than Stringless Greenpod and are entirely stringless. It is sometimes called the Dwarf Kentucky Wonder on account of the similarity of pods and is a great favorite with Coachella Valley market growers. Plant from April to September. (Pkt. 5c) (1/2 lb. 20c) (1 lb. 35c) (10 lbs. \$3.00) postpaid.

Early Refugee or 1000 to 1 An all round favorite for the summer months. Round pod, medium size, tender, desirable for table and cannery. It is a favorite with the market gardener because it is a good shipper, a good seller, and very prolific. Plant from April to August. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.



Full Measure

Inoculate
Beans at plant-
ing time with
McQueen's
Inoculator for
better results



A & M Improved Butter Wax

Canadian Wonder Flat pod of good flavor, not stringless, but otherwise tender. Very hardy. Desired above all others by gardeners growing on the foothills for winter shipping, because of its luxuriant growth and continuous bearing of long, straight pods. Plant from September to November 1st, according to locality. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Dwarf Horticultural Desirable for green, shell and dried beans. Stringless and of excellent flavor. It is of Italian origin and is very popular with Italian population. Cooked as green limas it will be found most excellent. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Six Weeks A strong, rapid grower, which matures quickly. Flat pod. Only desirable for forcing. Plant in February and March, also early in September and October. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

French Mohawk Long oval pod, very tender and prolific. Matures in six weeks. Desirable for a profitable short crop, as only two months is required from seed time to the end of the crop. Plant every month from March to October. (Per pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

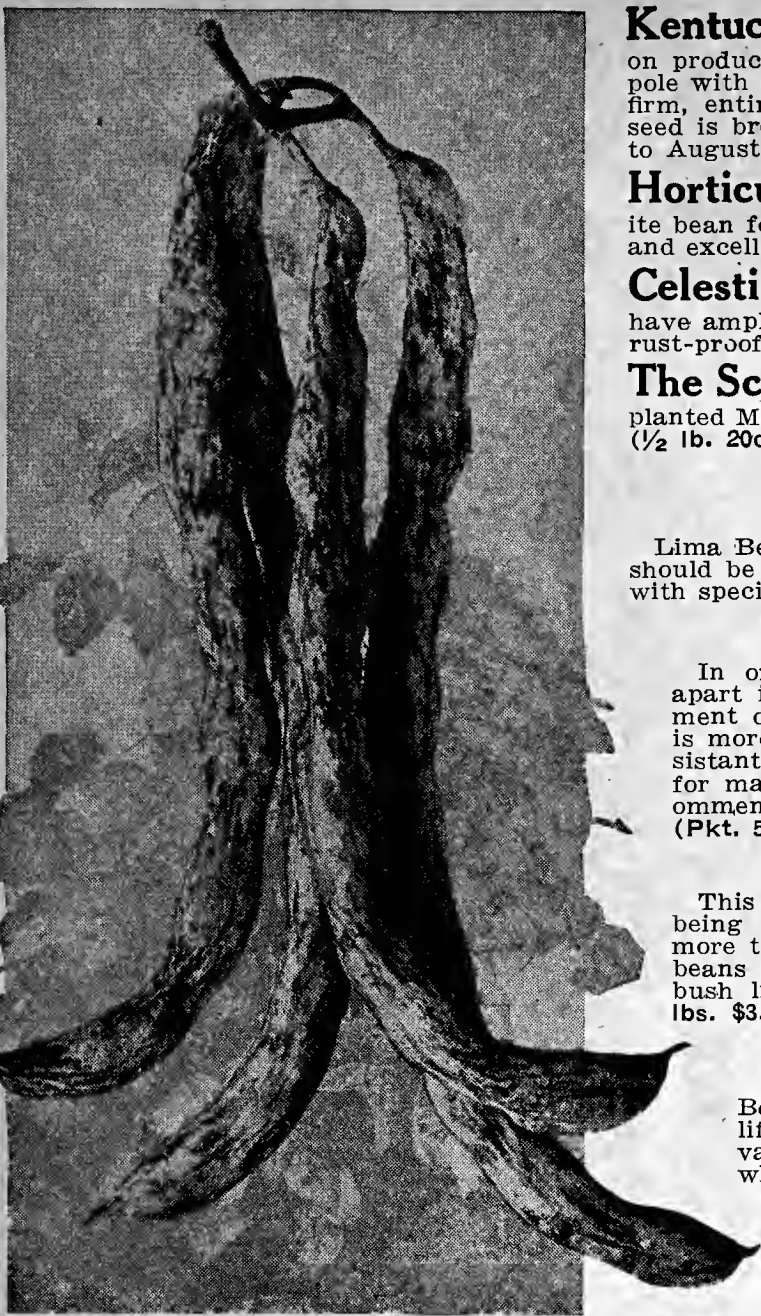
YELLOW POD BUSH BEANS

A & M Improved Butter Wax The demand for wax beans is increasing on the market and this variety has become a favorite because of the very attractive appearance of the pods. They are long, straight, of uniform size, very prolific and quite stringless. The blossoms set well throughout the summer and are not affected by heat. It is a strictly summer bean and should be planted from April 1st to July 1st. (Pkt. 5c) (1/2 lb. 20c) (1 lb. 35c) (10 lbs. \$3.00) postpaid.

A & M Golden Wax Long, flat pod, rich golden yellow, stringless. Plant early in April and until August. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Ventura Wonder Wax or Davis Kidney Wax This is the best Bean for the interior, Imperial Valley, Arizona and New Mexico, because the blossoms will not fall even at a high temperature. It is an excellent dry bean. Good bearer. Pods are long, rustless and hardy and very tender when young. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Prolific Black Wax Pod round, straight, five to six inches long. Decidedly the most desirable for mid-summer gardening. Plant from April to August. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.



A & M Spanish Giant

Pole Beans

A & M Spanish Giant An extremely fine pole bean for the home garden producing tender round pods 8 to 9 inches long and $\frac{1}{2}$ to $\frac{3}{4}$ inches thick. The pods have a slight blue marking which disappears as soon as placed in boiling water. They can be cooked ready for the table in ten minutes and are outstanding in flavor. The vines attain a height of 8 feet and must be poled. A great feature of this variety is the enormous yield of pods. (Pkt. 10c) ($\frac{1}{4}$ lb. 25c) ($\frac{1}{2}$ lb. 40c) (lb. 75c) postpaid.

Kentucky Wonder The most popular green bean on the market as well as with the home gardener. We recommend that this variety be poled if possible as this method of growing will produce more uniform pods and a heavier yield. The long round stringless pods are very tender and exceedingly prolific. Plant from April 1 to July 1. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

White Seeded Kentucky Wonder

In the South where earliness and lateness mean so much to the market gardener, the White Seeded Kentucky Wonder is far ahead of other varieties. It is enormously prolific of firm pods that withstand shipping to almost any part of United States. It matures 10 days earlier than the Brown Seeded Kentucky Wonder. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

A & M Rust Resistant Kentucky Wonder

An improved and selected strain. After considerable selection we now have what we consider a strain that is more immune to attack by rust than any other, and as hardy as Canadian Wonder. Along coast and where there is considerable moisture in the air, A & M Rust Resistant Kentucky Wonder will thrive and yield well even under adverse weather conditions.

BROWN SEED—Plant from April 1st to July 1st. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

WHITE SEED—In frostless districts this may be planted in the winter months from November 1st to February 1st in addition to the usual summer month plantings. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Kentucky Wonder Wax It commences to bear when scarcely higher than the average bush variety, and keeps on producing until killed by frost. It is a rampant grower, one plant filling a pole with a mass of vines densely loaded with luscious golden beans. They are firm, entirely stringless, and when cooked, deliciously rich and buttery. The seed is brown, closely resembling that of Kentucky Wonder. Plant from April to August. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Horticultural Pole Also known as Romaine, Cranberry, and Italian. Its large, succulent, tender pods make it a favorite bean for table. It is one of most desirable green shelled beans for succotash and excellent as a dry bean. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3) postpaid.

Celestial or Yard Long A good table bean, as well as a curiosity. It is very prolific and a rank grower. Should have ample arbor to climb upon. It is of Chinese origin and is also absolutely rust-proof. Pods are 2 to 3 feet long. (Pkt. 5c) (1 oz. 20c) (1 lb. \$1.50) postpaid.

The Scarlet Runner An old-time favorite that heretofore has been planted chiefly for ornamental purposes. May be planted May 1 and will rapidly cover an arbor with vines 20 feet long. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Bush Lima Beans

Lima Beans planted in cold soil will rot. They are warm weather plants and should be sown in April and May. However in frostless belts may be planted with special care much earlier.

Fordhook Bush Lima

In order to get the best results plant 1 foot apart in rows $3\frac{1}{2}$ feet apart. It is an improvement over the well known bush Lima because it is more prolific. It is a strong grower, more resistant to blight, and is more profitable to grow for market because pods remain green. We recommend it for both home and market gardens. (Pkt. 5c) ($\frac{1}{2}$ lb. 25c) (lb. 45c) (10 lbs. \$4) prepaid.

Burpee's Improved Bush

This bean differs from the old bush variety in being ten days earlier. Will yield one-fourth more tonnage per acre. Pods contain four to five beans that are larger and thicker than the old bush lima. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Henderson's Bush

Also called Baby Lima. Small white Lima Bean, of excellent flavor and enormously prolific. It stands more heat than any other variety and does well in the interior valleys where the larger seeded varieties fail to set pods. Used largely for canning and dry beans. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Monstrous Lima

Plant 6 feet by 6 feet, leaving one stalk in each hill. If convenient, plant in a sheltered place about April 1. You will then be gathering beans during September and possibly until January. After a while new growth will appear, then prune as you would a grape vine, protect with straw or a similar material, and by May 1 you have a new crop. During July vines will show age and become mildewed; prune as before and in October you will begin gathering your third crop. Continue pruning twice a year; irrigate and fertilize. (Pkt. 5c) ($\frac{1}{2}$ lb. 35c) (lb. 60c) (10 lbs. \$5.50) prepaid.

Pole Lima

King of the Garden

Very prolific; large and desirable both for the home garden and for the market gardener. Not quite as early as the bush varieties, but bear over a longer period. Plant from Apr. 1 to Sept. 1. (Pkt. 5c) ($\frac{1}{2}$ lb. 20c) (lb. 35c) (10 lbs. \$3.50) prepaid.

COMMERCIAL BEANS

Each variety (per lb. 25c) (10 lbs. \$2.00)
Write for quantity price.

PINK—An old-time favorite. Plant 30 to 45 lbs. to the acre.

LADY WASHINGTON and NAVY—Both are small white beans but the Navy is slightly smaller. Plant 25 to 30 lbs. to acre.

RED KIDNEY—Is grown largely for canning. Plant 40 to 50 lbs. to acre.

MEXICAN RED—There is a ready market for it at our wholesale grocers. Plant 30 to 40 lbs. to acre.

GARVANZA (Chick Pea)—This is very popular farther south. Plant 40 to 50 lbs. to acre.

HOP! LIMA—Drought resistant type of Limas. The beans are slightly larger than Henderson's Bush.

OTHER BEANS LISTED ON PAGE 81



Fordhook Bush Lima

A & M Cabbage



Cannon Ball

Culture The secret of growing hardy plants is to thoroughly prepare the soil in the plant bed. Plow the soil to a depth of eight or ten inches, pulverize well. Sow in drills not too freely, about one-half inch deep, press the soil firmly over the seed; this is important. In about six weeks transplant in rows three feet apart, one foot in the row for Winnigstadt, eighteen inches for large-heading varieties. Keep the crop well watered and cultivated for when the growth is checked the seed head matures and bursts forth as soon as moisture is again applied. This accounts for much cabbage going to seed. Early varieties mature about three and one-half months after transplanting, late varieties in about five months.

Cabbage may be grown all the year in Southern California and throughout the Southwest. It should be borne in mind that the big planting of cabbage is intended to meet the Eastern demand in midwinter and early spring, and that our time of planting is out of the natural season, and therefore often subjected to unseasonable weather, which causes it to be stunted and often shoot to seed.

Improper culture, too, will stunt the normal growth of cabbage and cause the heads to prematurely go to seed. Cabbage requires heavy soil but good drainage and frequent but shallow cultivation. However good crops will be obtained on lighter soil if well fertilized.

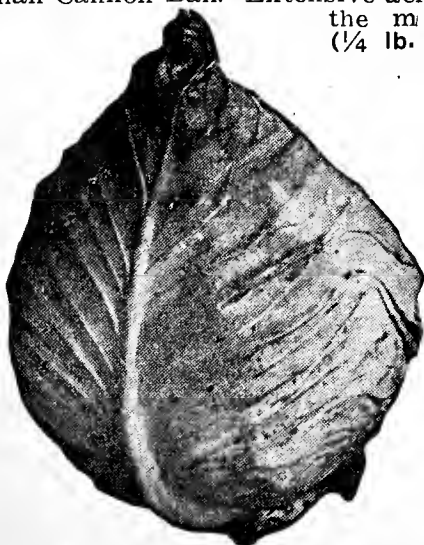
Should there be a cold spell when the thermometer lingers below 25 degrees, just at the time the cabbage begins to head, some of the crop may run to seed.

Four ounces of seed will produce plants for one acre.

For control of aphids in field culture dust with Nico Dust, using No. 6 in hot weather, No. 8 in cooler weather and No. 10 in cold weather. For home gardens Kalolil, Destruxol and Black Leaf 40 are very effective.

A & M Golden Acre Cabbage This is one of the earliest varieties of cabbage we have ever had in our trials. It resembles somewhat in shape the Copenhagen Market, but is a trifle smaller in size and is 12 to 14 days earlier. In habit of growth it is quite dwarf, very compact and produces a head of desirable size for family use or for packing. The heads average in weight 2½ to 3 pounds. Because of its compactness and the few leaves it may be planted 12 to 14 inches apart in the row and at this rate about 15,000 plants are required for one acre. It is very solid, of uniform shape and size and is what we consider an extra fine all around variety. (Pkt. 5c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

Copenhagen Market For tenderness and delicious flavor this cabbage is unexcelled. It forms a large round solid head and is much earlier than Cannon Ball. Extensive acreages are grown every year for the market. (Pkt. 5c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.



A & M Early Winnigstadt

Introduced by us in 1896. As a winter crop it is in great demand. It is popular because it is early, solid, good flavor, sure header and good shipper. The small heads are particularly desirable for home use, making it a most satisfactory home garden variety. (Pkt. 5c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

Cannon Ball or Short Stem Danish Ballhead

This has become one of the standard varieties for shipping. It is planted mostly during the months of August and September for early spring shipping to Eastern markets. It has a globe shaped head slightly flattened and is a hardy grower, withstanding more cold weather than other sorts. (Pkt. 5c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

Early Flat Dutch This is a splendid strain of Flat Dutch Cabbage. It is a favorite with many market gardeners and home gardeners for the reason that every plant produces a head. Heads are large, well flattened on top, and it is a good producer. (Pkt. 5c) (oz. 30c) (¼ lb. \$1.00) (1 lb. \$3.00) postpaid.

Late Flat Dutch Year by year this variety becomes more and more popular. It is very tender, crisp, and just the right size for the dealer. Truckers like it because every stalk produces a head. (Pkt. 5c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

Improved Scott's Cross This type of Cabbage was very popular a few years ago and we now offer a greatly improved strain. It is a pointed Cabbage similar to Winnigstadt but produces a greater tonnage per acre and matures a little later. A very excellent variety strongly recommended for all purposes. (Pkt. 5c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

Early Jersey Wakefield Very early, maturing in 90 days. Small head inclined to point like the Winnigstadt. Recommended for home garden where earliness is desired. (Pkt. 5c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

Drumhead Savoy This is the curly or crinkled leaf Cabbage. Has large, solid heads; easy to grow. (Pkt. 5c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

Red Dutch Heads of deep color and remarkably solid. Excellent for slaw and pickling. (Pkt. 5c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

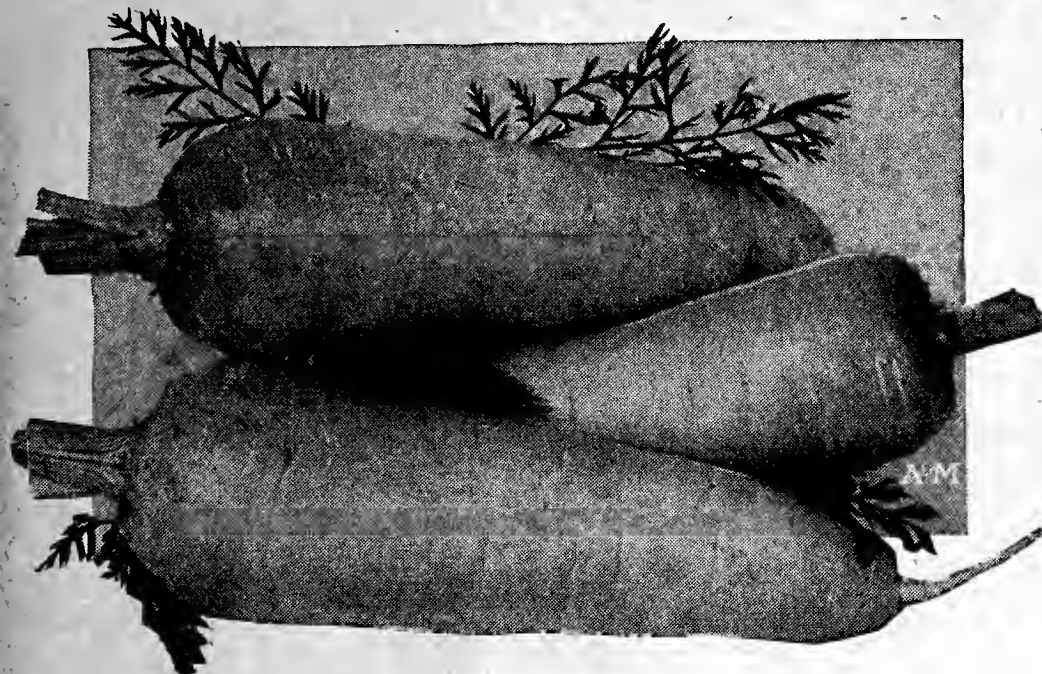
CHINESE CABBAGE—See Page 11

A & M Table Carrots

Culture Carrots will grow in almost any kind of soil, but in order to get smooth, uniform roots a rich sandy loam is to be preferred. They may be planted all the year. Sow one ounce of seed to 100 feet of row, three pounds per acre.

Carrots are very profitable because of the large quantity that a small patch can produce, and there is no waste, as any surplus may be fed to rabbits or other animals.

Sow the seed from ½ to 1 inch deep in rows 8 inches apart, and as thin as the drill can be set to sow, or, if sown by hand, aim to have two seeds to the inch, or sow in ridges same as lettuce. The carrot has few insect enemies. Nematode is the worst. Irrigate same as for beets. Carrots are ready for use in eight weeks and remain palatable for six months or longer.



Chantenay

Danver's Half Long The roots are a rich dark orange color and by reason of its symmetrical shape which is long and pointed it makes an excellent bunching variety. It has proved over a period of years to be the most popular Carrot both with the grower and the shipper. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Imperator This Carrot grows to a height of 6-7 inches with a shoulder diameter of 1¼-1½ inches and is a deep orange color. It has a smooth crown; does not have undesirable side shoots; has a fine texture, and is good and sweet. In all respects it is very attractive for shipping purposes. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Chantenay Flesh is a deep golden orange color, always smooth and fine in texture, very tender. Excellent bunching variety and grown exclusively by market growers. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

A & M STOCK CARROTS

Culture Drill in rows 12 inches apart, and thin to three inches apart in the row. It requires three pounds of seed to plant an acre. Carrots are healthful food for stock of all kinds and should be more generally grown.

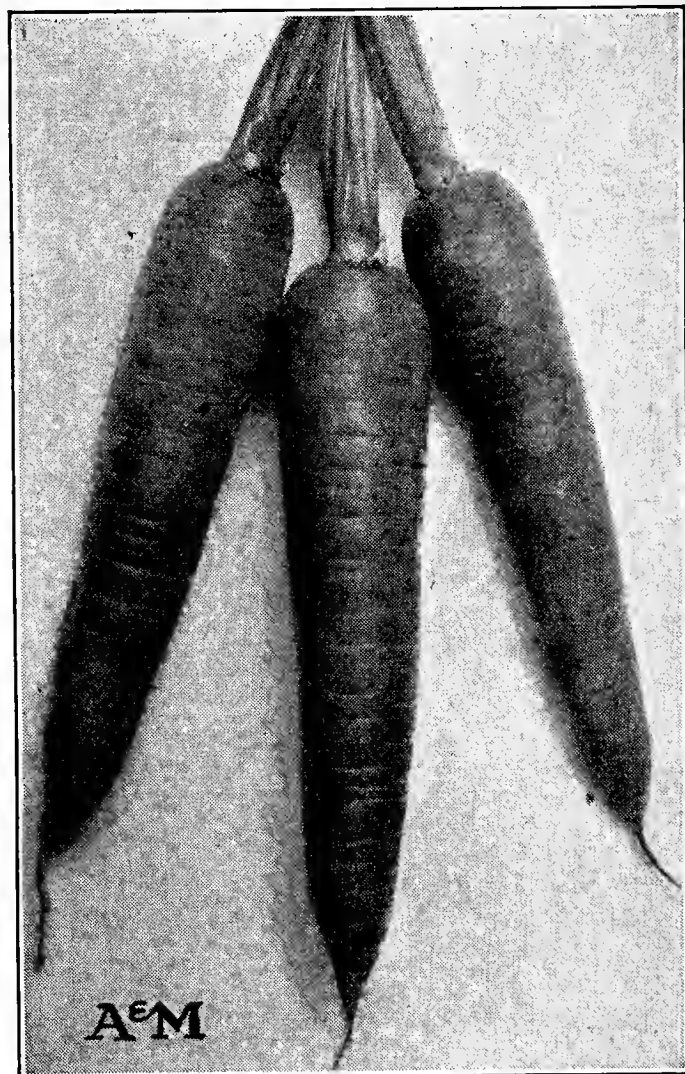
Half Long White Belgian Is raised exclusively for stock. Grows to a very large size; is easily gathered. Makes splendid food for cattle, horses and hogs; known to yield forty tons per acre. Will keep four or five months after pulling. (Pkt. 5c) (oz. 15c) (¼ lb. 35c) (lb. 90c) postpaid.

Large Yellow Belgian Is similar to White Belgian, but with a light orange color; said to be richer, but does not keep so well. (Pkt. 5c) (oz. 15c) (¼ lb. 35c) (lb. 90c) postpaid.

Oxheart Beautiful shape and color. The roots generally attain four or five inches in length, and about three inches in diameter. Quality first rate, very tender, and a variety that is used in quantity. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Early French Forcing A small sort but desirable on account of its extra early habit. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Improved Long Orange A deep orange colored variety adapted for farm or garden culture. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Imperator

Chinese Cabbage

Our strain is the genuine Wong Bok imported from China and is considered the perfect Chinese Cabbage. The large solid heads are crisp and tender and are ideal for salads. It is also useful for cooking and is grown extensively for poultry. Sow from Sept. 1st until Feb. 1st in rows 24 inches apart and thin plants to 10 inches apart in the rows. (Pkt. 5c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.



A & M Collards

The Collard is an old-time favorite, adapted to all parts of the South, and as a producer of "greens" during winter and spring it has no equal. It will pay you to have a collard patch just to feed the chickens.

Southern Georgia This variety is the old-time favorite. Stands all sorts of adverse conditions without injury. Is very hardy. In many places where the soil is too poor to grow cabbage, the collard grows easily, and makes a good substitute for cabbage. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

A & M Cauliflower

Culture Cauliflower will grow on most of the California soils but prefers a rich loam even to heavy adobe. It does best in a climate adjacent to the sea or where the temperature does not rise too high and where the latter part of the growing season is cool and the air is moist. Yield and quality is increased by the judicious use of fertilizers, fishmeal being the most preferable.

Early varieties should be sown in the seed bed from April 1st to July 15th; late varieties from June 1st to September 1st. Plants should be ready to transplant from 6-8 weeks after the seed is sown. Every possible attention should be given the seed bed as extra care given here will have a marked effect on the final production of heads. The bed should be kept well irrigated, cultivated and, if necessary, fertilized with fishmeal.

Failure to set the plants in the field until too late may retard growth and cause the production of immature heads. Checking of the growth at any period is apt to cause the plants to go to seed. Plant one row to a ridge and set the plants at the side of the ridge; rows 3 feet apart and about 2 feet apart in the row (see illustration).

Do not attempt to grow Cauliflower or Cabbage unless you have water in abundance.

Four ounces of seed will produce plants for an acre.

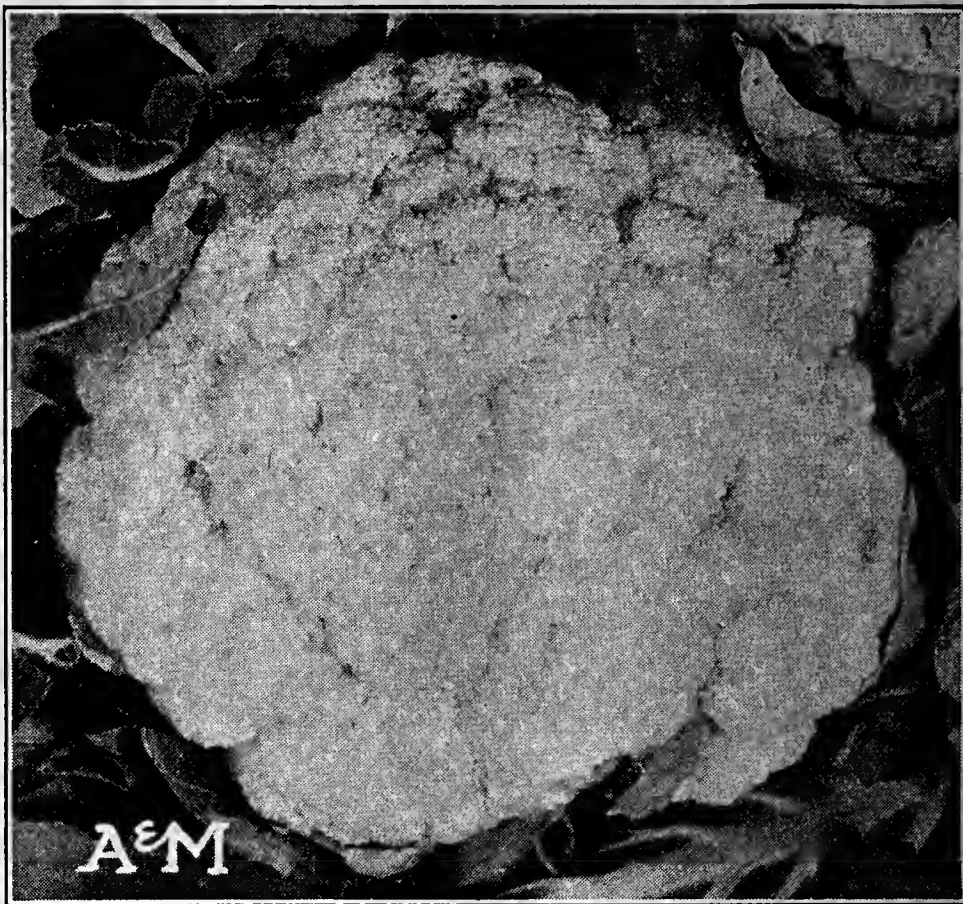


Snowball

Snowball Snowball is in a class by itself for earliness and the time for maturity may be governed somewhat by the time of planting. April sowings will come to maturity in October provided the summer months are not too hot. To grow this variety in the summer an abundance of water is necessary, judicious cultivations, and liberal use of fishmeal, thereby keeping the plants growing at all times without check. The plants produce a medium sized head, 8-10 inches in diameter, pure white and of firm texture. (Pkt. 15c) (1/4 oz. 90c) (oz. \$2.50) (1/4 lb. \$6.25) (lb. \$25.00) postpaid.

A & M Extra Early Snowball This type matures approximately ten days earlier than the regular Snowball. The heads of the Extra Early are slightly smaller and are very desirable for shipping purposes as well as the local market. (Pkt. 15c) (1/4 oz. 90c) (oz. \$2.50) (1/4 lb. \$6.25) (lb. \$25.00) postpaid.

ILLUSTRATION ON RIGHT—The field is irrigated several days before planting. The plants are set on the side of the ridge and the furrows then watered. At the first cultivation throw the soil towards the plants and so on at each succeeding cultivation until the plants are finally growing on the ridge top.



A & M Pearl

A & M PEARL

This Cauliflower was introduced by us several years ago and has become the most popular strain for the later plantings. It is the variety that made California Cauliflower famous throughout the United States and is shipped to the Eastern markets during the months of January, February and March. It grows to a height of 3-4 feet and the flower is completely enveloped by spiral, curled leaves which protect the heads from injuries both in growing and shipping. The heads are of large size, very compact and of excellent flavor.

We have two stocks, A & M Late Pearl and A & M Medium Pearl as listed below.

A & M Late Pearl This variety has become the most popular with the shippers and market growers. Seed should be sown during July to harvest in January and February, and later for harvesting in March and April. (Pkt. 5c) (1/4 oz. 65c) (oz. \$2.00) (1/4 lb. \$6.00) (lb. \$20.00) postpaid.

A & M Medium Pearl This variety is similar to the Late Pearl in all respects except to earliness, and to harvest in December seed should be sown by June 1st. Successive sowings may be made up to August 1st to be harvested in February. (Pkt. 5c) (1/4 oz. 65c) (oz. \$2.00) (1/4 lb. \$6.00) (lb. \$20.00) postpaid.

SEE ALSO ST. VALENTINE BROCCOLI (page 6) WHICH IS USED AS AN EXTRA LATE CAULIFLOWER.



A & M Sweet Corn



A & M Early Golden

Culture Plant from February 15th to August in hills 18 inches apart, in rows 3 feet apart, or drill. Allow two stalks to the hill, break off all side shoots; cultivate after each irrigation until the corn shades the ground; irrigate every two weeks until in the milk, then once or twice a week, and this will produce a solid, tight husk, which will prevent the worms from doing much damage. For corn ear worm dust the silk at an early stage of growth with Fluocide Dust.

Instead of planting long single rows of corn it is preferable to sow several short rows along side each other so that pollen scattering from the top tassles is more likely to reach the silk of the ears below. A rotation of corn may be obtained by planting at the same time some A & M Early Golden, Golden Bantam and Oregon Evergreen and they will mature at intervals in the order named. Plant 10 lbs. per acre.

A & M Oregon Evergreen Oregon Evergreen is undoubtedly the most popular of all varieties. The large sized ears are of excellent quality with a tight husk, and it is exceedingly prolific. Seed may be planted from February 15th to August 1st according to location. Oregon Evergreen is the standard corn both for market growers and home gardeners. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

A & M Early Golden This is a light golden colored corn maturing earlier than Oregon Evergreen. It grows to a height of 4-5 feet, each stalk producing 2 or 3 ears of extra fine flavor, being sweet and tender. This variety is becoming more popular each year and many road-side markets are making a specialty of this corn. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Golden Bantam A home garden variety that is highly desirable because of its flavor and sugar content. It is very early, dwarf in habit and a good yielder. By removing the suckers as they appear several ears may be produced on the main stalk. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Early Alameda (Short-top.) The value of this corn is its extreme earliness. It grows 4-5 ft. tall and produces large ears close to the ground. It can be planted closer together on account of the moderate height. Early Alameda is in great demand as an early white corn for the market garden trade. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Country Gentleman A delicious sweet corn. The ears are somewhat smaller and less showy than the coarser varieties, but for private family use, where quality is preferred to size, it is excelled only by the Golden Bantam. The cob is very small, giving great depth to the kernels. The great merit of "Country Gentleman" is its fine quality. It matures in ten weeks. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

A & M Early Adams A hardy and early corn suitable for the earliest and latest plantings as it resists more cold weather than any other variety. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

A & M Large Adams This is the best market variety to plant in August for late crop. It will mature in fifty-five days. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Stowell's Evergreen If planted at the same time with earlier varieties and at intervals of two weeks until July 1st, it will keep the table supplied until November. It is hardy and productive, very tender and sugary, remaining a long time in a fresh condition. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Black Mexican One of the best sweet corns for this section. Deliciously sweet and tender very productive. (Pkt. 5c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

SEMESAN, JR.

For better results dust seed corn before sowing with Semesan, Jr. It is effective in controlling diseases, accelerates germination, develops sturdier plants, promotes earlier maturity, improves quality and increases yields. (4 oz. 40c) (1 lb. \$1.50) (5 lbs. \$7.00) f. o. b. Cannot be mailed.

Pop Corn

Rice Sharp pointed grain is preferred by vendors, but is not profitable to grow here at the usual price because of the devastations of the worm. (Per pkt. 5c) (lb. 30c) (10 lbs. \$2.50) prepaid.

Yellow Large smooth grains of Golden Yellow Color. It pops large, has excellent flavor and is the most profitable to grow. (Pkt. 5c) (lb. 30c) (10 lbs. \$2.50) prepaid.

A & M Cucumbers

CULTURE FOR HOT-BED—Make the frame eight feet wide and as long as is desired, using 12 in. boards. Select a place with good loamy soil on a sunny slope. Mix the soil almost half and half with horse manure. About February 1st sow liberally with seed, in hills 3 feet apart each way. Stretch wire over the frame across and lengthwise. Sow muslin in widths and lengths to cover frame. Arrange to roll the muslin on a stick as a curtain. Cover each evening, and open each day.

Early Fortune A very fine early variety producing rich dark green fruits about 8 to 9 inches in length. The flesh is thick and crisp with a delicious flavor. It is a long distance shipping cucumber and is popular alike with the market gardener and home planter. Edible in 58 days. (Pkt. 5c) (oz. 15c) (¼ lb. 45c) (lb. \$1.25) postpaid.

A & M Davis Perfect This is the ideal cucumber. Long, slender, dark green, tender and crisp. It is the best all-around cucumber yet offered for the family garden, and is also a popular shipping variety. Ten inches long. Edible in 58 days. (Pkt. 5c) (oz. 15c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Klondike This cucumber has steadily grown into favor since we first offered it. It is the one variety that made carload shipments possible because it is firm, dark green color, and stays green until consumed. It is a desirable size, just 7 to 8 inches long, symmetrical in shape, and especially crisp and palatable. It is an excellent variety for pickling when young, as well as desirable for the market. Edible in 58 days. (Pkt. 5c) (oz. 15c) (¼ lb. 45c) (lb. \$1.25) postpaid.

White Spine A popular, early variety for slicing. Very prolific, crisp and excellent for pickling when young. Nine inches long. Edible in 60 days. (Pkt. 5c) (oz. 15c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Chicago Pickling This is the variety that is grown largely for pickling factories, and our seed has given the growers satisfactory results for years.

It is chosen because of its delicious quality and its shape, being one inch thick and three inches long when at pickling size. It is enormously prolific, bearing in clusters. We can recommend it for the home garden. (Pkt. 5c) (oz. 15c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Everbearing Cucumber This variety is entirely distinct from all others on account of its close, bushy growth and everbearing character. The first cucumbers are ready very early and the vines continue to flower and produce fruit continually until late in the season, whether the ripe cucumbers are picked off or not, differing in this respect from all other varieties of cucumbers in cultivation. One of the old reliable varieties growing 5 to 6 inches long. The skin is dark green, the meat firm and crisp.

We recommend this to be planted in home gardens at all times, but especially in September. Edible in 52 days. (Pkt. 5c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Gherkin This cucumber is the most delicious of all the cucumber family when properly pickled. It should be more extensively grown. Planted where it may climb on a trellis, one vine will cover a section of fence eight feet high and twelve feet wide, producing possibly a thousand or more of the delicious and oddly shaped gherkins. It should be planted to shade a window or back porch. (Pkt. 5c) (oz. 25c) (¼ lb. 75c) postpaid.

For Mildew on Cucumbers we advise using 1 qt. Fungusol Emulsion to 40 gals. water. For Cucumber Beetles use 1 qt. Destruxol and 8 lbs. Calcium Arsenate to 200 gals. water.

A & M Special Long Green

This is a great improvement over the old strain of Long Green. The fruits are unusually handsome, being of good form and of a deep green color which is retained a considerable time after picking. 9-10 inches in length. Edible in 62 days.

(Pkt. 5c) (oz. 25c)
(¼ lb. 85c) (lb. \$2.50)
postpaid.

A&M

FIELD CULTURE—Plant from March to October in hills 4 to 6 feet each way, 8 to 10 seeds to a hill. Earlier sowings can be made by protecting with Hotkaps. Cover an inch deep. When danger of insects is past, thin out the plants, leaving 3 or 4 of the strongest in each hill. One ounce of seed will plant 50 hills; two pounds to the acre.



Lemon Cucumber

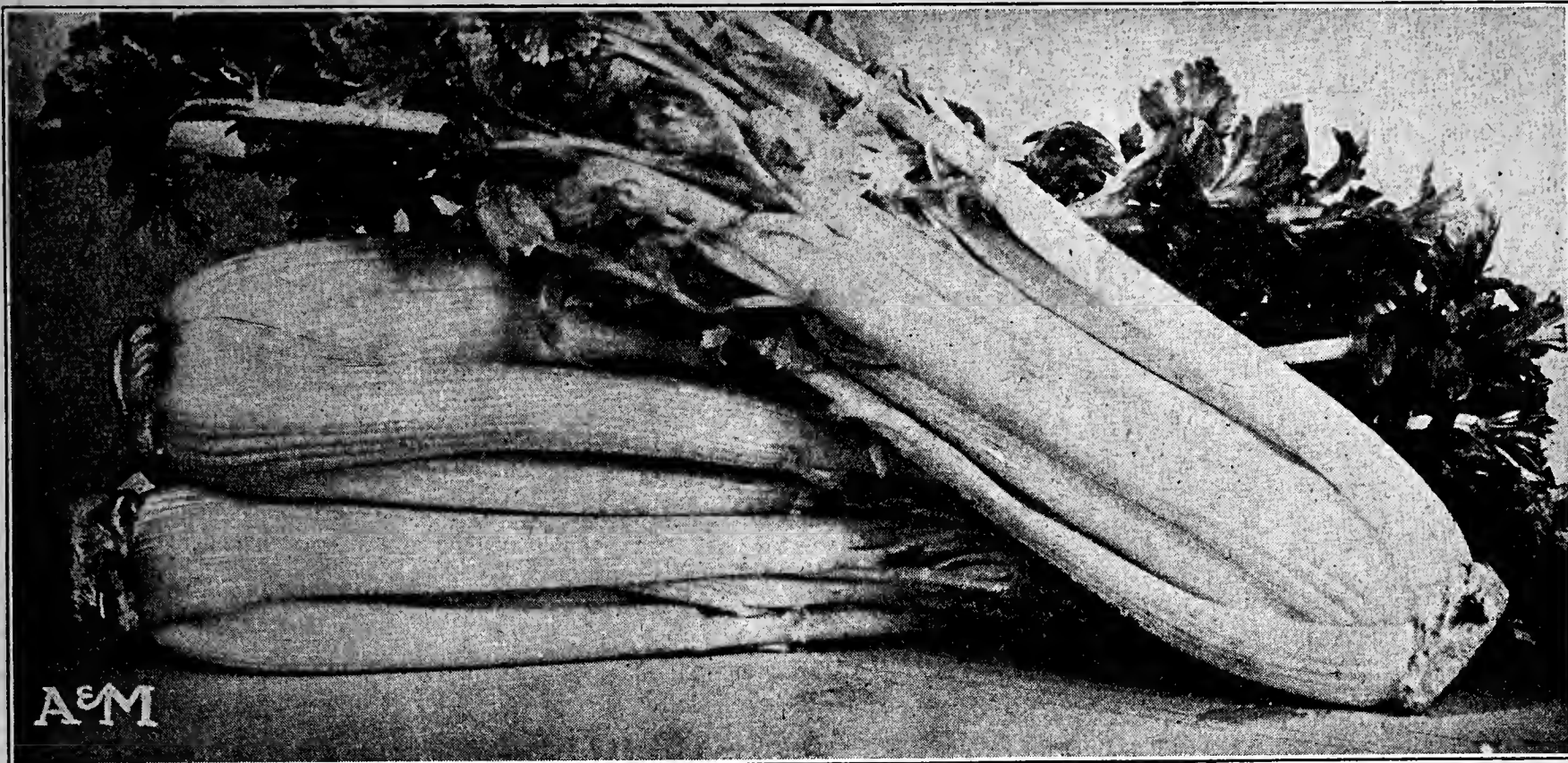
Lemon Cucumber Every one who has tried it is unanimous in its praise, and would not think of omitting it from the spring garden. It is the color of a lemon when ready to use, and similar in shape, being less pointed at the ends.

There is nothing but approval for the Lemon Cucumber. It may now be found at almost any vegetable stand, and no home garden should be without it. Edible in 52 days. (Pkt. 5c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Salad Cucumber One of our own introductions and one of the finest cucumbers ever grown. It is now being sold on the market and we advise market gardeners to introduce it to their trade. It is a very mild cucumber and does not have the bitter or strong taste often found in other varieties. For the home gardener a few hills of salad Cucumber will be one of the most interesting things in the garden and the crisp tasty cucumbers will provide a most delicious salad. The color is a bright, appetizing yellow. Try them and you will not be disappointed. Six-seven inches long. Edible in 58 days. (Pkt. 5c) (oz. 30c) (¼ lb. \$1.00) (1 lb. \$3.00) postpaid.

Japanese Climbing Cucumber This variety should be grown more extensively; it is equal to others in quality and can be grown more economically in a small garden by planting near a fence or trellis of any kind, and climbs by tendrils as a grape vine. Whether space is a factor or not, we recommend it. Edible in 58 days. (Pkt. 5c) (oz. 20c) (¼ lb. 65c) (lb. \$2) postpaid.





Golden Self Blanching—Long Top

A & M Celery

Culture Sow one-half ounce of seed to 100 feet of drill; $\frac{1}{4}$ lb. per acre. Sow the seed from Jan. 1st to May 1st, in drills 6 inches apart, not too thick in the row to secure stalky plants. In June when the plants are strong, transplant to furrows three feet apart and six inches deep. In some districts plantings are made in double rows. Set the plants six inches apart in the furrows; as the plant grows fill the earth toward the plant to secure proper bleaching. Never allow dirt to rest on the heart of the plant. Never work in celery when it is wet with rain or dew. Spray frequently with Bordeaux, to prevent mildew, and use Fluocide, a non-poisonous dust, for worms.

Celery Rot—Do not allow water to stand during the heat of the day after irrigating. It will cause Celery Rot in the early crop.

Hollow Stem—When the growth is rank and the stalks so close that free ventilation of air is retarded during the hot weather, the stems become soft and hollow; therefore we recommend the single-row planting.

A & M Golden Self Blanching (California Grown Seed) We have two distinct strains of this seed, one being the standard height while the other is 6 to 8 inches taller. Please specify on your order which you want. The tall strain of A & M Celery grows rapidly, the outer leaves are quite tall on the long tops, so that the

grower may sometimes be inclined to market it before the heart is mature. Be careful about this and give it more time if necessary. If you are producing celery for the market see us about seed, for we have made a careful study of this particular crop over a period of years and can probably be of assistance to you. This type has been proven very satisfactory for shipping purposes wherever tried. Long top or short top. (Pkt. 5c) (oz. 50c) ($\frac{1}{4}$ lb. \$1.65) (lb. \$5.00) postpaid.

A & M Golden Self Blanching (French Grown Seed) French grown seed produces very excellent Celery and is often preferred by the market growers and shippers in some districts. (Pkt. 5c) (oz. \$1.20) ($\frac{1}{4}$ lb. \$4.00) (1 lb. \$12.00) postpaid.

White Plume California grown. Its stock, inner leaves and heart are naturally white, so that simply drawing the soil up against the plant and pressing it in is all the work required for blanching. (Pkt. 5c) (oz. 30c) ($\frac{1}{4}$ lb. \$1.00) (lb. \$3.00) postpaid.

CELERIAC

Smooth Prague A large celery flavored root used extensively for flavoring soups, pickles, etc.; also relished as a salad. (Pkt. 5c) (oz. 35c) ($\frac{1}{4}$ lb. \$1.20) (lb. \$3.50) postpaid.

A & M Chicory

Large Rooted

Seed should be sown quite thinly in shallow drills early in the spring. When well started, thin out to stand two or three inches apart in the row and give good cultivation all summer. (Pkt. 5c) (oz. 25c) ($\frac{1}{4}$ lb. 85c) (lb. \$2.50) postpaid.

Witloof Sow the seed in deeply prepared ground during June, July and August. In December make trenches ten inches deep and twelve or fifteen inches wide. Set the roots three inches apart in rows eight inches apart, within the trench, so the tops of the roots are eight inches below the top of the trench. Then fill with a mixture of sand and humus, water thoroughly.

This is a most delicious salad. (Pkt. 5c) (oz. 25c) ($\frac{1}{4}$ lb. 85c) (lb. \$2.50) postpaid.



WITLOOF CHICORY.

Chives

The famous Schnittlauch — highly prized for flavor. The seed of this is not easily germinated and it will be necessary, therefore, to plant a fairly good quantity of the seed if many plants are desired. (Pkt. 15c) ($\frac{1}{4}$ oz. 35c) (oz. \$1.00) postpaid.

A & M Cress

Pepper Grass Sow curled or pepper grass thickly, in shallow drills, every two or three weeks. It should be cut often, and will continue to grow. It is used not only for salad, but on the breakfast table and for garnishing. Used with lettuce its pungency adds an agreeable flavor. (Pkt. 5c) (oz. 15c) ($\frac{1}{4}$ lb. 50c) (lb. \$1.50) postpaid.

True Water Cress Should be sown in damp soil or if a stream of water can be utilized, it would be much better. It will also thrive well in damp cold frame. Rightly managed, its culture is very profitable. (Pkt. 5c) (oz. 45c) ($\frac{1}{4}$ lb. \$1.50) postpaid.

MARKET GROWERS

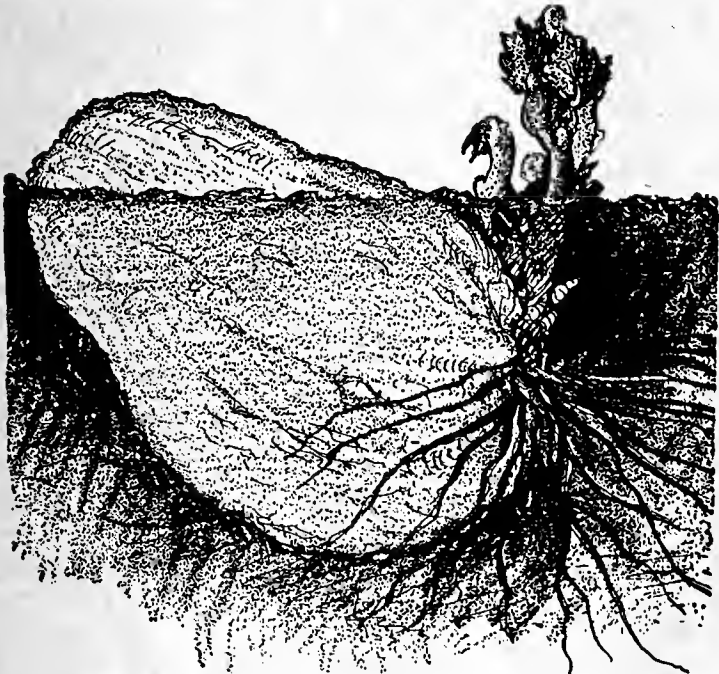
We are noted distributors of Sprayers and Spray Materials. Please ask for special quotations and for any spraying advice.

A & M Chayote

Cultural Directions One fruit envelopes one seed, which sprouts from the large end. Plant where you intend it shall grow. Cover only the large end, leaving the small end exposed. (See picture.) Or let the fruit lie around until it has well sprouted, and then plant the seed, leaving the sprout well above ground. Water freely and do not be alarmed if frost should destroy it. A new shoot will soon appear. Give it abundance of water throughout the hot summer season.

The Chayote is no longer a novelty. It has now become an article of commerce. It may be found on sale at many grocery stores throughout the season, which lasts from October until March.

The vine is a rampant grower. The first year from seed it will grow twenty to thirty feet. Destroyed to the ground by frost, it soon sends out new growth, and during the second season will extend vines forty or fifty feet in every direction. During September it starts blooming, having a small, white, insignificant flower. Within four weeks fruit is large enough for the table. A trellis or other support is necessary. Cook in the same manner as squash. Orders shipped January, February and March only. Each 35c postpaid.



Chayote as it Should be Planted

A & M Egg Plant

Culture The seed should be sown in a hotbed during December or January; it is slow to germinate and requires warm and even temperature. The plants should be ready to set out by April 1st, and may be planted as late as August 1st. Plant 2 feet apart in rows 3 feet apart. Keep well watered and pick closely as soon as large enough. In very warm protected spots they will survive the winter. Even if the foliage is destroyed sprouts may appear the following spring from the stem beneath the soil and mature marketable fruit the following May. Egg plants require four to six months to mature. One-fourth pound of seed is sufficient to plant an acre.



New York Improved

Tree Egg Plant This variety is of medium size, and extremely good shape, being particularly adapted to slicing, as there is no waste of material. It resists drouth and bad weather to a wonderful degree, partly on account of its strong, upright growth. It bears its fruit sometimes one or two feet above the ground, thus escaping liability to rot. It is very satisfactory for the home garden. (Pkt. 5c) (oz. 65c) (1/4 lb. \$2.25) (lb. \$6.50) postpaid.

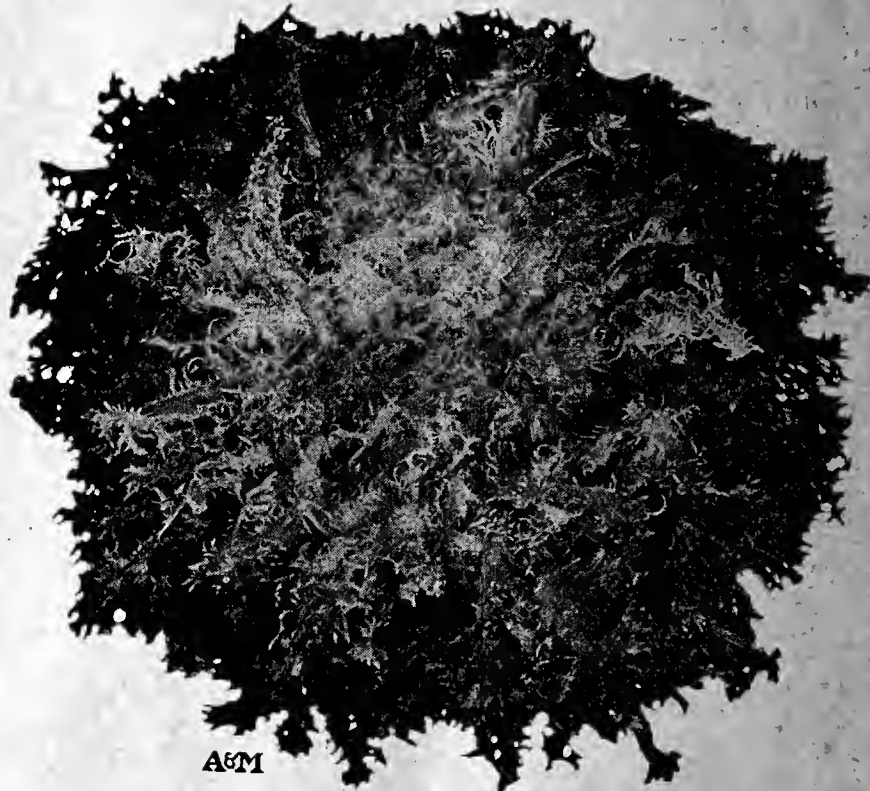
New York Improved

This variety has superseded all others, both for market and home use. The large size and high quality of its fruit and its extreme productiveness make it the most profitable for the market gardener. It is spineless, which is a great advantage in shipping. (Pkt. 5c) (oz. 65c) (1/4 lb. \$2.25) (lb. \$6.50) postpaid.

A & M Endive

Culture Same as for lettuce. Seed may be sown any time during the year. When plants are well started, thin out to ten inches apart or they may be transplanted. When plants have reached a good size, gather the leaves closely together and tie loosely in an upright bunch. This blanches the inner leaves in about ten days and adds to the crispness as a salad, as it renders the flavor mild and delicate. One ounce will sow 400 feet of row.

This plant furnishes an attractive and appetizing salad for the fall and winter months; by repeated sowings a supply may be had nearly all the year 'round.



A&M

A & M Ruffec Green Curled Endive

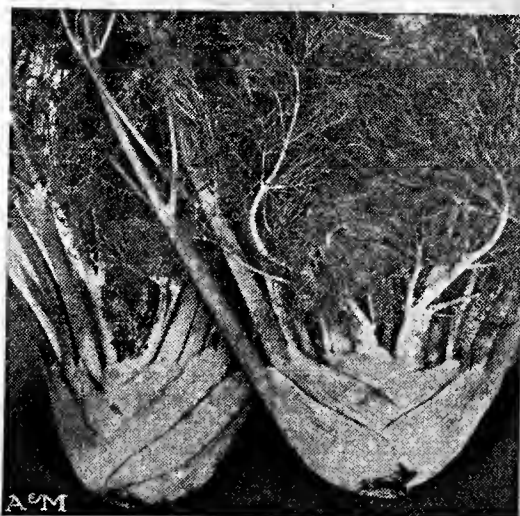
Ruffec A very large compact green ribbed variety with finely curled leaves, and produces a splendid crisp heart bleached to a golden cream. It attains a size of 16-18 inches in diameter and is very hardy. It is the prime favorite with the market growers and great quantities are shipped to the Eastern markets each year. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Pancalier This Endive is earlier than most varieties and should be planted for summer and early fall crop. It is large and very finely curled, the ribs are tinged pink, and the centers are very dense. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Green Curled Golden Heart Leaves are finely curled or lacinated, giving the plants a rich, mossy appearance, which is greatly enhanced when the centers are nicely blanched. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Batavian or Escarol Forms large heads of broad, thick leaves, which can be blanched for a salad or it will make excellent cooked greens, as well as being useful to flavor soups, stews, etc. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Sweet Florence Fennel



Usually grown as a fall crop being planted from July to September requiring about 3 1/2 months from seed to maturity. Sometimes planted on beds like lettuce but usually planted flat so that soil can be worked to the plants to protect the bulbs from frost.

Although usually planted in double rows it attains better size when planted in single rows about 30 in. apart.

(Pkt. 5c) (oz. 20c) (1/4 lb. 70c) (lb. \$2) postpaid.

Gourd

CULTURE—Gourds are tender annuals, of trailing or climbing habit. Seed should not be planted until ground is warm. Plant in hills and cultivate as cucumbers. Leave only two plants in a hill, and allow the vines to ramble or train over a trellis for shading windows.

Dish Rag Gourd The peculiar fibre within the gourd gives it its name. The fruit grows about one foot long. The interior fibre is serviceable for a variety of household purposes, being used as a dish cloth, or sponge. The fibre is tough, elastic and durable. (Pkt. 5c.)

Mock Orange A good old sort, the gourd often finding its way into the family sewing basket. Beautiful and rapid climber, quickly covering trellises. (Pkt. 5c.)

Hercules Club This often grows to a length of four feet, but is not the same as the New Guinea Butter Bean which it resembles. (Pkt. 5c.)

Dipper Bowl with long handle. (Pkt. 5c.)

Bottle Bowl with short handle. (Pkt. 5c.)

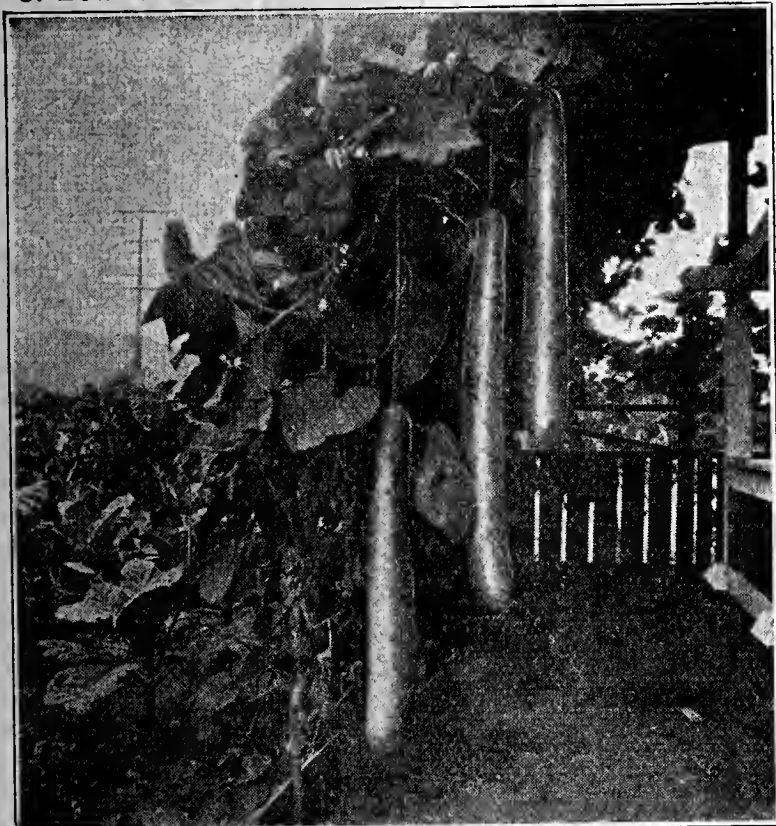
Pipe Often made into pipe for smoking tobacco. (Pkt. 5c.)

Nest Egg (Pkt. 5c.)

Turk's Turban (Pkt. 5c.)

Edible Gourd Very useful for providing a summer arbor. The young fruits make an excellent dish when served after the manner of squash. (Pkt. 5c) (oz. 30c) (1/4 lb. 90c) postpaid.

SPECIAL ORNAMENTAL MIXTURES—See Page 50



Edible Gourd or New Guinea Butter Bean

Herb Seeds

Anise—Used as a cordial and for garnishing and flavoring. Seeds have an agreeable aromatic taste. (Pkt. 5c) (oz. 35c).

Basil—Sweet. The leaves are used for flavoring soups, stews and highly seasoned dishes. (Pkt. 5c) (oz. 50c.)

Borage—The leaves are used for flavoring and the flowers furnish bee pasture. (Pkt. 5c) (oz. 50c.)

Caraway—Grown for the seeds, which are used extensively for flavoring of bread, pastry, etc. (Pkt. 5c) (oz. 25c).

Catnip or Catmint—The leaves are used for seasoning. It also makes an excellent bee pasture. (Pkt. 5c.)

Chervil—Used in soups and salads. (Pkt. 5c) (oz. 30c)

Coriander—The seeds are used in the manufacture of liquors and confectionery. (Pkt. 5c) (oz. 25c).

Dill—The seeds have an aromatic odor and warm, pungent taste. They are used as a condiment and also for pickling cucumbers. (Pkt. 5c) (oz. 25c).

Lavender—Used chiefly in the manufacture of perfumery. (Pkt. 5c) (oz. 75c).

Marjoram—Sweet. The leaves and the ends of the shoots are esteemed for seasoning in summer and are also dried for winter use. (Pkt. 5c) (oz. 75c).

Rosemary—The aromatic leaves are used for seasoning. (Pkt. 5c) (oz. \$1.00).

Sage—The most extensively used of all herbs as a seasoning for dressing. (Pkt. 5c) (oz. 75c).

Sorrel—Used in soups and salads for its pleasing flavor. (Pkt. 5c) (oz. 35c).

Summer Savory—A hardy annual. The dried stems, leaves and flowers are extensively used for flavoring—particularly in dressings and soups. (Pkt. 5c) (oz. 75c).

Saffron—Used for flavoring. (Pkt. 5c.)

Thyme—Used for seasoning. (Pkt. 5c) (oz. \$1.00).

A & M Kohl Rabi



A & M Kohl Rabi

Seed may be sown every month in the year. Drill on ridges same as beets. Thin to three inches apart. An ounce of seed will produce 2,000 plants.

Early White Vienna

Earliest sort, very tender, excellent for table use. (Pkt. 5c) (oz. 25c) (1/4 lb. 85c) (lb. \$2.50) postpaid.

Early Purple Vienna

Similar to above, but has flesh of purple color. (Pkt. 5c) (oz. 25c) (1/4 lb. 85c) (lb. \$2.50) postpaid.

A & M Kale

Culture Seed should be sown thinly in drills, September to March; 2 lbs. seed for the acre; transplant the young plants 12 inches apart in rows three feet apart.

Tall Scotch This makes a beautiful plant, 3 to 8 feet tall. The crinkled leaves resemble parsley, but they are much larger. An excellent table variety. (Pkt. 5c) (oz. 15c) (1/4 lb. 45c) (lb. \$1.25) postpaid.

Jersey or Thousand Headed The large smooth leaves may be cut or broken off when they are full grown and they will soon be replaced with new ones. Ninety to one hundred pounds of green feed per week may be cut from fifty plants if they are well cared for. (Pkt. 5c) (oz. 15c) (1/4 lb. 45c) (lb. \$1.25) postpaid.

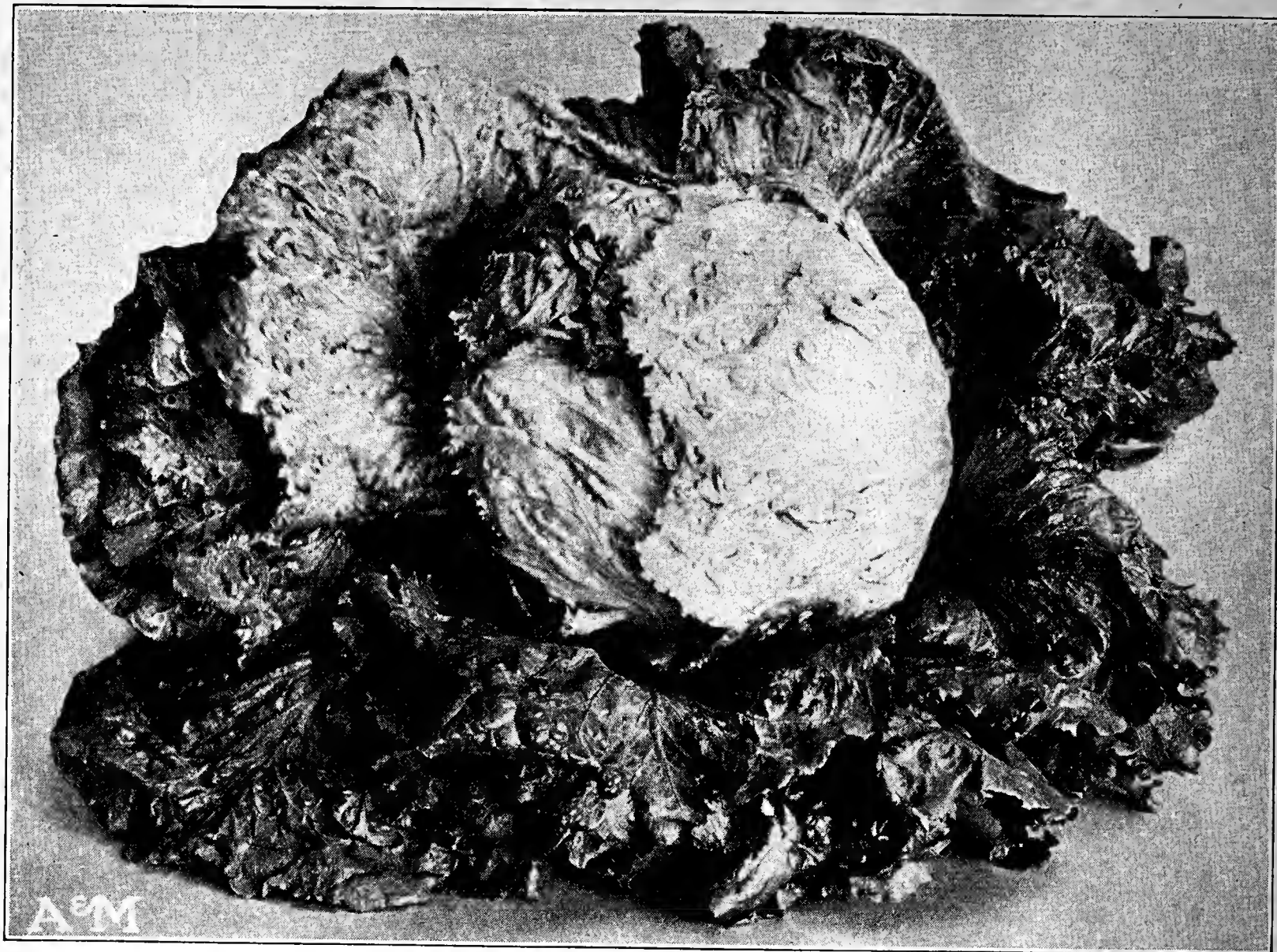
Dwarf Green Curled This variety has practically no stem and the head lies close to the ground. The leaves are full, finely curled and of a deep shade of green. (Pkt. 5c.) (oz. 15c) (1/4 lb. 45c) (lb. \$1.25) postpaid.

A & M Leek

A & M Leek We believe in having the best of everything. With this idea always before us, we have secured this fancy strain of leek. It is large, white, tender and mild—the best in the world. Its mild, delicate flavor makes a delightful addition to lettuce salad. (Pkt. 5c) (oz. 25c) (1/4 lb. 85c) (lb. \$2.50) postpaid.



Jersey Kale



New York Special or Los Angeles Market

A & M Lettuce

Culture At the time of sowing the soil should be in finest possible condition, well pulverized. The plants should be grown on ridges 14 to 18 inches wide, 4 to 6 inches high and in double rows 10 to 15 inches apart. The water should be run between the ridges and not permitted to flow over the tops as this cakes the soil. Water should never be allowed to cover the plants. There should always be an adequate amount of moisture in the soil from the time the plants have commenced to head until they have matured. The hoeings necessary on raised beds will vary from one to three times. The earth around the plants should not be allowed to harden. Drill 2 lbs. of seed per acre for double rows and thin plants to 10 inches when about one inch high.

New York Special or Los Angeles Market

We introduced this lettuce to the local market gardeners' trade in 1904 and in 1906 we shipped the first crate of lettuce which ever left California. This arrived in Philadelphia in satisfactory condition and was the beginning of the great lettuce shipping industry. Los Angeles Market has now become the leading variety, thousands of carloads being shipped each year, and growers and distributors have learned to depend upon the A & M strain for the best shipping type. Every pound of A & M Los Angeles Lettuce seed is from fields that have been carefully inspected for type, and our crops are otherwise given personal attention. It is one of the largest and most solid heading varieties in existence, often weighing 2½ and 3 pounds to the head, and always a prizewinner.

During the past few years there has been an insistent demand for us to put up our strain in sealed bags, and we are now offering specially branded and sealed bags of our now famous strain of A & M Los Angeles Market Lettuce for your protection as well as ours. (Pkt. 5c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) (5 lbs. \$7.50) (10 lbs. \$12.50) postpaid.

Write for prices of New York Special No. 12 and Imperial strains which are specially adapted for certain districts.

Iceberg Iceberg Lettuce planted later than March 1 should be sown on dark, heavy soil, because if grown on light, sandy soil, the heat of the sun reflected from the sand on the under side of the leaves causes them to burn almost to the heart. It heads better than some varieties during warm weather and is a good variety for the home garden.

The light green, curled, red-tinged leaves of the Iceberg form heads as large as the Los Angeles Market, but not so solid, but it is as tender and crisp, and is of excellent flavor. (Pkt. 5c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

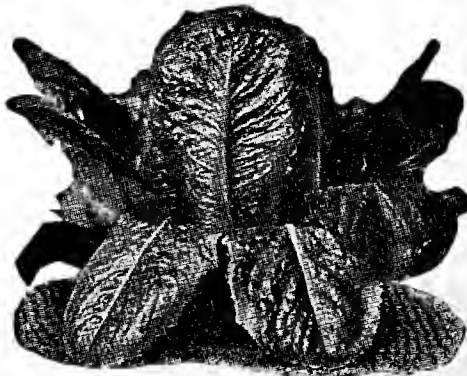
Early Curled Simpson This is a very popular variety as a loose leaf lettuce. The leaves are large, thin, very tender and of a very good quality. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Black Seeded Simpson A large sized, loose leaved lettuce especially good for the home garden. Plants may be left fairly close in the rows. (Pkt. 5c) (oz. 15c) (¼ lb. \$1.50) postpaid.

Hanson Without exception this is the best variety for late spring and mid-summer crop. Prof. F. W. Mally, Farm Demonstrator of Webb County, Texas, discovered Hanson Lettuce to be resistant to both heat and disease, and particularly resistant to eel worm which is often prevalent where least expected. Hanson Lettuce is similar to the Iceberg Lettuce, except that it has not the tinge of red. We recommend it for the home garden. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Big Boston Very large, smooth-leaved, solid-heading variety grown extensively throughout the east and south. It is congenial to all climates, and is a good shipper. In flavor it probably excels all other smooth-leaved varieties. An excellent all year round lettuce. (Pkt. 5c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

Chicken Lettuce This variety of lettuce should not be confused with the regular heading or loose-leaved varieties. The plant grows very much like kale, to a height of four to five feet, with much growth of leaf. It is used mainly for chicken and rabbit feeding. It does not head and is seldom if ever used for table purposes. The wonderful leaf growth makes it ideal for green food for chickens, etc. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Paris White Cos (Romaine)

Paris White Cos

(Romaine)

This might well be spoken of as the "Aristocrat" for the reason it is used almost exclusively at aristocratic clubs and hotels for salads, because it is crisp and has a delicious, nutty flavor.

Gardeners would profit to give more attention to this variety. (Pkt. 5c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

A & M Mushrooms

Mushrooms can be grown in any dark room or cellar where the temperature can be kept at 50 to 75 degrees. The main conditions in mushroom growing are proper and uniform temperature, and very rich soil. No practical substitute has been found for cured or composted horse manure in the cultivation of mushrooms. One pound (or one brick) of spawn is sufficient for a bed 2 x 8 feet. We have the best spawn obtainable.

Pure Culture Spawn. Put up in bricks. (Per brick 40c) (5 bricks \$1.75) postpaid.

A & M Mustard

Yellow Seeded The seed is used extensively for spicing, pickling and other culinary and medicinal purposes. The young plants make delicious greens. (Pkt. 5c) (oz. 15c) (lb. 50c) postpaid.

Southern Giant The true curled-leaf variety so popular in the South for planting in the fall. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Ostrich Plume Is delicious as well as ornamental; the leaves resemble ostrich plumes, hence the name. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Chinese White This is a delicious vegetable and savors strongly of Brussels Sprouts, being less pungent than the American varieties. It is greatly relished by the Orientals, and can be seen all the year 'round at vegetable stands kept by the Japanese and Chinese. (Pkt. 5c) (oz. 40c) (1/4 lb. \$1.35) (lb. \$4.00) postpaid.

Chinese Green This is an Oriental vegetable, and like the White Mustard, is grown all the year 'round, but like our American Spinach, thrives best in the winter season. (Pkt. 5c) (oz. 40c) (1/4 lb. \$1.35) (lb. \$4) postpaid.

A & M Okra



White Velvet

A good and healthful vegetable for a summer crop.

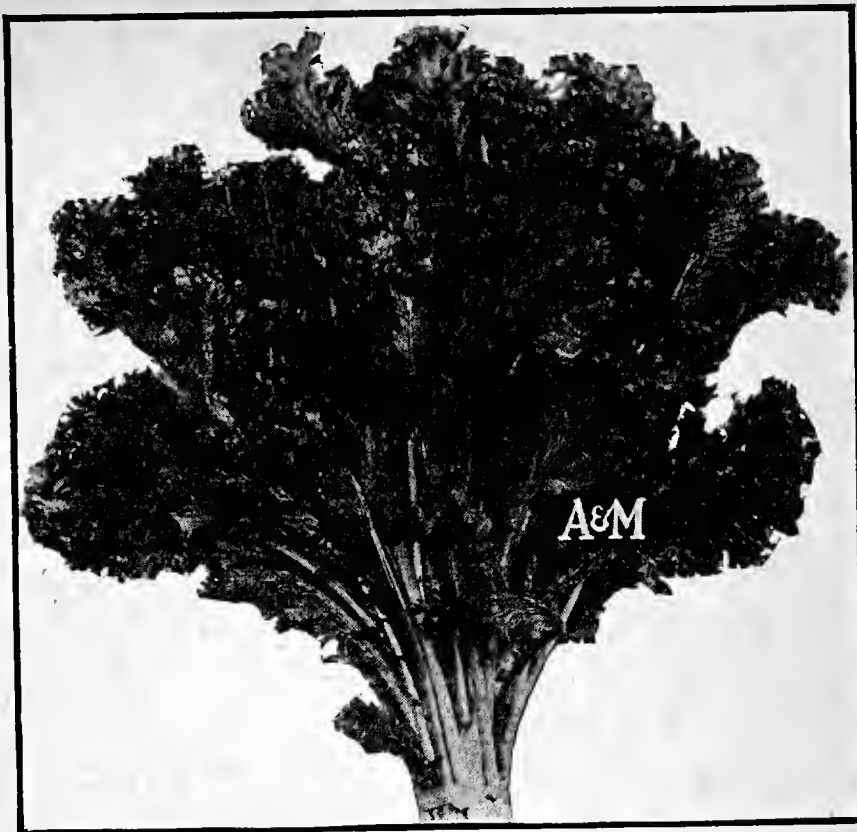
Culture—Plant seed from April 1st until Aug. 15th. Plant six to ten inches apart in rows three feet apart. One ounce will plant one hundred feet of row.

A & M Early Greenpod

One of the earliest and most dwarf growing sorts. The plants are from 2 1/2 to 3 feet in height, producing pods very close to the ground and very thick on the stalk. It is common to find thirty to forty pods on a stalk 3 feet high. The pods are deep green in color, short, corrugated and fluted. This variety matures very early, and with the good shipping qualities which it has, it is the favorite variety among truckers. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

White Velvet A strong growing variety, the usual height being about 4 feet. The pods are much smaller in diameter than other varieties. They are almost white, long and smooth, and free from ridges. The fact that it is free from ridges prevents it to a great extent from being bruised when being handled and therefore makes it a good sort for shipping. It is used extensively by canners. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Mammoth Longpod A fairly early maturing variety. Extensively planted in the South for both market and home use. The stalk sometimes grows very tall, reaching a height of five to six feet, producing pods ten to twelve inches in length. The pods are dark green and corrugated. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.



A & M Southern Giant Mustard

A & M Parsley

Culture The seed usually takes 3 to 4 weeks to germinate and it is best to soak it in water about 12 hours before planting. Sow in drills a foot apart and thin plant to 4 inches. One of the secrets of germinating Parsley seed is to thoroughly firm the soil after sowing. A light mulch will help to retain moisture and facilitate watering without crusting the ground.

A & M Champion Moss Curled An immense acreage of this parsley is grown in Southern California for the local market and for shipping to outside territory. A small plot of this in the garden will furnish garnishing material almost the year around. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Plain or Smooth-leaved This variety has a richer parsley flavor than the curled varieties and should be preferred for the home garden. It is not profitable to the market gardener for the reason that the curled variety will produce much more per acre. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Extra Double Curled A good curled variety for garnishing. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Hamburg Turnip Rooted Fleshy vegetable roots for soups, etc. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.



Champion Moss Curled Parsley

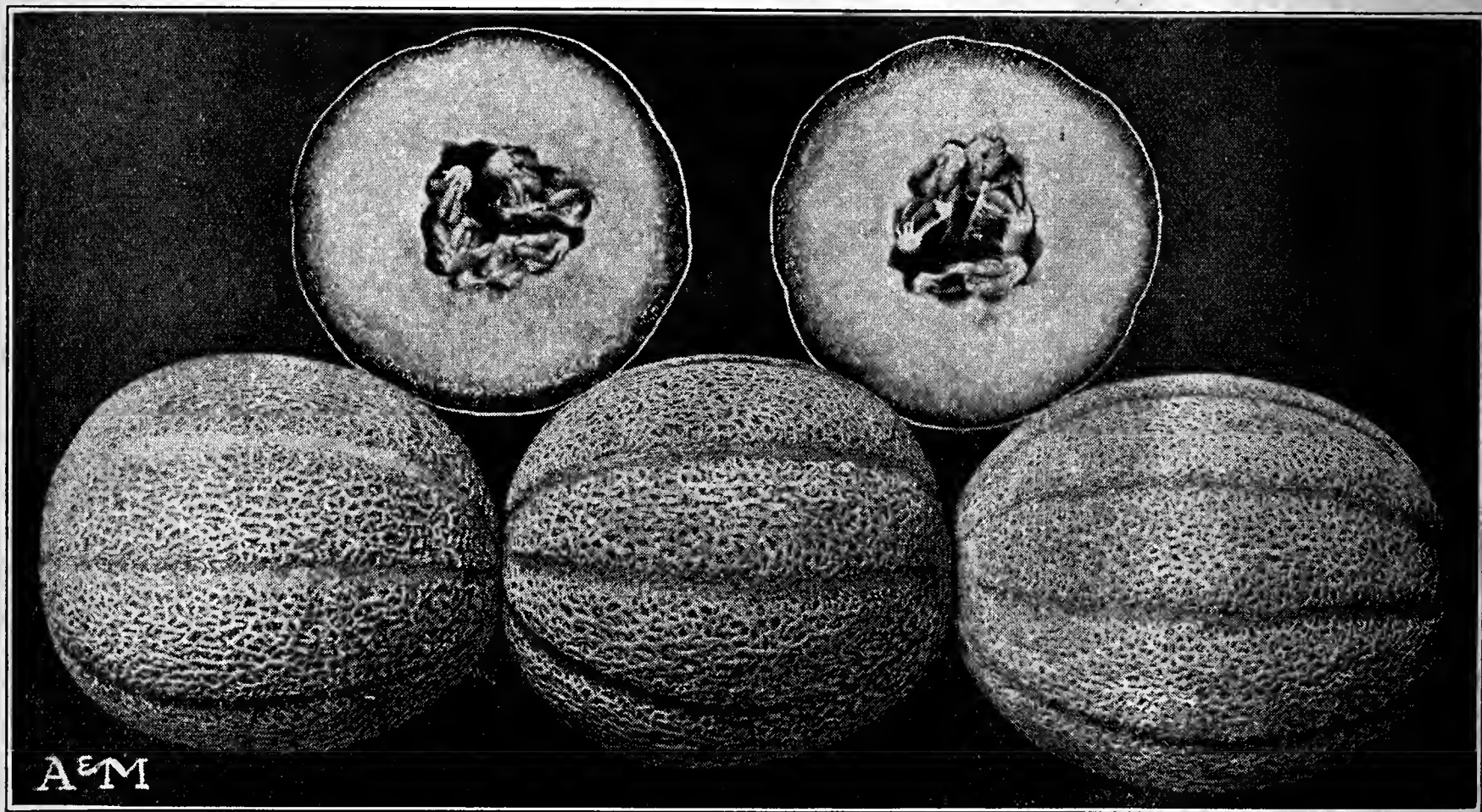
A & M Muskmelons

Culture The soil must be thoroughly soaked down to submoisture, either by rain or irrigation. When dry enough plow ten or twelve inches deep. Thoroughly pulverize the soil. Prepare furrows eight to ten inches deep and 6 feet apart. Plant from February 15th to June 15th; however earlier plantings may be made by using Hotkaps as a protection. Sow 6 or 8 seeds to the hill. Plants should be left 4 feet apart in the rows.

As the plants grow gather the soil around until the roots are twelve inches or more below the surface. Thin out all surplus plants as soon as they are hardy and well established. The rows are now straight and an equal distance apart. This makes it easy to cultivate close to the hills, both lengthwise and crosswise. Cultivate deeply as long as there is no danger of disturbing the roots. Be always mindful that the roots are as long as the vine, therefore when working close to the hills and among the vines, let the hoeing or cultivating be shallow.

Always cultivate the irrigation furrow as soon as the soil is dry enough to mulch nicely.

If this rule is intelligently adhered to your vines will never suffer from drouth, or root blight, and will be healthier in every way, because the roots are deep down in the cool, moist earth unaffected by the heat of the sun. This is the secret of success with all midsummer crops.



Hale's Best

Hale's Best An extra early salmon tint of remarkable flavor. The seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted, have plainly marked ribs and are very attractive. It is ten days to two weeks earlier than other shipping varieties and yields wonderfully well. Large quantities are being planted in the Imperial Valley for shipping purposes. Our strain of seeds is regular A & M quality from carefully rogued fields. 6-7 inches long. Edible in 70 days. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Improved Perfecto Melons are almost perfectly round, and are heavily netted without rib markings. The seed cavity is triangular and small, and the pink flesh is extremely sweet and spicy. It is one of the thickest fleshed cantaloupes grown. Large acreages are grown in the Imperial Valley and other sections for shipping purposes, and it is also very desirable for the home garden. Six inches in diameter; edible in 90 days. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid. (Illustrated on next page.)

The Famous Indiana This melon has a rich yellow flesh and a flavor that may be compared with the Persian. It is heavily netted, very thick meat and holds up in good condition for several days. (Pkt. 5c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Improved Burrell's Gem An oval pink fleshed melon with a very small triangular seed center. The ribs are not prominent and the netting is quite heavy. The flesh is sweet and juicy; its shipping qualities are remarkably good. Edible in 87 days. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

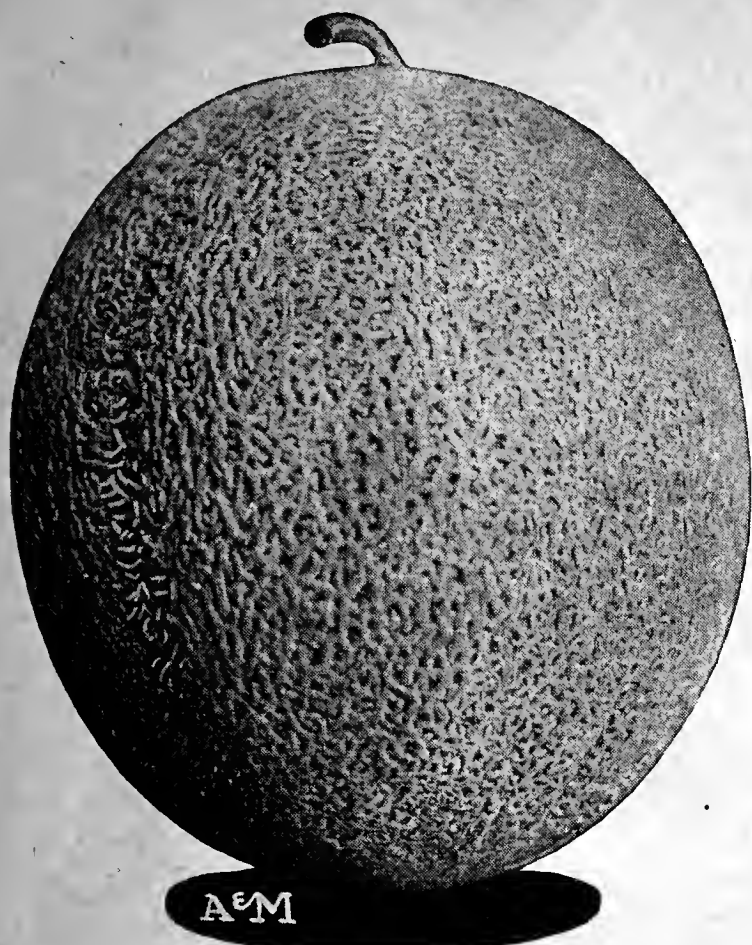
Rocky Ford The well known improved Netted Gem. A very early small melon, oblong, slightly ribbed, heavily netted, having green flesh of excellent flavor. Five inches. Edible in 96 days. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Pollock 10-25 An improved strain of the popular Rocky Ford with salmon-tinted flesh. It eliminates every defect of all other strains. Perfect in size, shape, netting, flavor, and long keeping and good shipping qualities. 5½ inches. Edible in 96 days. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Nicholson's Honey Ball A cross between Honey Dew and Texas Cannonball. It is a late season variety and very prolific—some vines yielding as many as 25 melons to the plant. The fruit has a thick wall of copper tinged green meat clear to the rind and it has fine shipping qualities. Several thousand acres are planted in the Imperial Valley each year. Average weight is 4 lbs. Edible in 100 days. (Pkt. 5c) (oz. 20c) (¼ lb. 60c) (1 lb. \$1.75) postpaid.

Irondequoit It may well be called the Improved Tip-top, for that is what it is. The appearance is similar except the netting which is heavier; it is more solid and less prone to split. The average size is slightly larger; the flesh is yellow and the flavor unsurpassed. It is an ideal melon for the peddler or the cafeteria. It is neither too large nor too small. (Pkt. 5c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Melons—Continued



Improved Perfecto

A & M Honey Dew This melon has won its way in to favor wholly because of its excellent flavor and good keeping qualities. It is enormously prolific. It is ready to pull when the green luster has changed toward a creamy yellow. It is not ready to be eaten until like the Casaba, you can make an impression with the thumb as in a mellow apple.

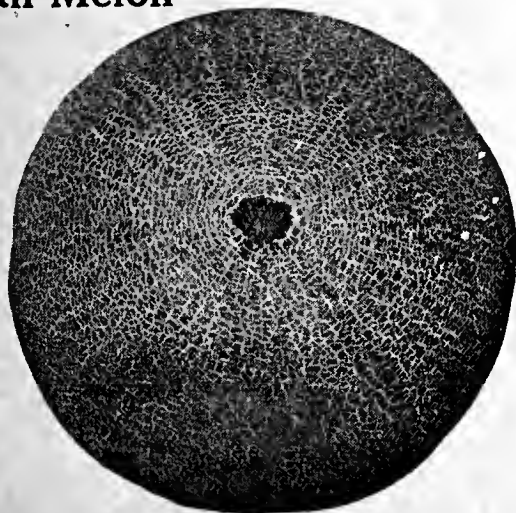
Flesh is light green and sweet as honey. The rind is light green or silvery-gray in color, smooth as an egg and hard as the rind of a winter squash. It is therefore a good shipper. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Yellow Fleshed Honey Dew When the Honey Dew Melon was introduced it quickly became popular. One would not believe another melon could be better, but the Honey Dew hybridized with the Tip Top produced a melon of the same outside appearance as the Honey Dew but with a deep yellow flesh that is positively more delicious. Do not hesitate to plant it if for the home garden or for shipping. (Pkt. 5c) (oz. 25c) (1/4 lb. 75c) (lb. \$2.25) postpaid.

Baby Persian In every respect this is equal to the regular Persian Melon but its uniform size of approximately 6 inches in diameter makes it very desirable for packing in crates. Very useful for small families when larger melons are not required. (Pkt. 5c) (oz. 30c) (1/4 lb. \$1.00) (lb. \$3.00) postpaid.

A & M Persian Melon

Large, extremely netted, without ridges, thick yellow flesh of delightful flavor. A good keeper and a good shipper. It should be picked while yet quite solid. Customers should be educated to purchase half a dozen at a time and set them away to be eaten as they become mellow like a Casaba. When properly picked they are ready for the table within six to ten days. Average weight 10 lbs. Edible in 102 days. (Pkt. 5c) (oz. 30c) (1/4 lb. \$1.00) (lb. \$3.00) postpaid.



A & M Persian



Tip Top

A & M Tip Top This popular muskmelon is another triumph for Aggeler and Musser Seed Company because of our effort years ago to introduce it. The gardener was slow to accept it, but knowing its merits we persisted in offering it. It is now one of the most popular muskmelons grown for the local market. The yellow flesh is edible to the rind. The melon is of medium size. Edible in 96 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

MARKET GROWERS—NOTE!

We are headquarters for Market Garden supplies—seeds, sprayers, insecticides, etc. Market growers please write for special quotations and for any advice on crops or spraying.

Turkish Melon This is one of the excellent melons brought to California by the Armenians. Its flavor is equal to the Persian melon. It has yellow flesh and resembles the Persian melon in every way except that it shows on the rind a faint stripe and is without the heavy netting. Do not hesitate to order it for it is just as good as the Persian for the home garden or nearby market. (Pkt. 5c) (oz. 30c) (1/4 lb. \$1.00) (lb. \$3.00) postpaid.

Oriental or Japanese

This melon appears to be a cross between Golden Beauty Casaba and Persian Melon. It has the same salmon tinted flesh as the latter but the texture is as fine as a casaba, and the flavor is very sweet. The rind is thin and is of a yellowish green color with darker blotches. When ripe the fruit averages 7 or 8 lbs. Market gardeners are recommended to grow this for local trade. (Pkt. 5c) (oz. 40c) (1/4 lb. \$1.35) (lb. \$4.00) postpaid.



MELONS—Continued Next Page

A & M Casabas

Culture In general the culture for Casabas is the same as for melon. Plant Casabas according to locality, from February 15th until June 15th, in furrows 8 feet apart. For late shipping many are planted from June 1st to July 15th. Casabas may be taken from the vine as soon as they lose the green lustre, but should not be eaten until the hard rind of such varieties as the Pineapple and Golden Beauty will give slightly under pressure of the thumb. The Improved Hybrid in particular is not at its best until quite an impression can be made with the thumb as in a mellow apple. The best way to keep the Casaba late into the Fall is to gather them together in the hill, leaving them attached to the vines and covering them completely with the vines. They should be planted about 8 feet apart each way and it requires about one pound of seed for an acre.

Golden Beauty

Introduced by us in 1906, it at once became popular locally. It is now grown more extensively throughout California than any other casaba because of its beautiful appearance, and delicious flavor. Distributors also prefer it as it stands up well after long journeys in carload shipments. Where a melon is required for fall or late consumption this variety is planted more than any other. Edible in 105 days. (Pkt. 5c) (oz. 20c) (1/4 lb. 65c) (lb. \$2.00) postpaid.

Eastern friends at Christmas. It is of delicious flavor, beautiful in its mottled gold and black coloring. (Pkt. 5c) (oz. 30c) (1/4 lb. \$1.00) (lb. \$3.00) postpaid.

A & M Hybrid It grows to a very large size and is of delicious flavor. It is a rampant grower and yields enormously; as many as seventeen large melons were taken from one vine. It is profitable early and late. This melon is now grown as extensively for a midsummer crop as the muskmelon, and finds a ready sale. Plant from March 1st until July 15th. Edible in 105 days. (Pkt. 5c) (oz. 25c) (1/4 lb. 85c) (lb. \$2.50) postpaid.

Golden Hybrid This is a bright golden yellow, large sized Casaba of excellent flavor and grows very similar to A & M Hybrid. (Pkt. 5c) (oz. 35c) (1/4 lb. \$1.00) (lb. \$3.00) postpaid.

Winter Pineapple This is the first of Casabas introduced into America. We have carefully maintained the purity of type so that it is now just as distinct as when introduced more than forty years ago. This and the Golden Beauty are identical in all except color, which when mature is light green. The Winter Pineapple is more profitable as a late melon, therefore we recommend to growers near the Coast that it be planted during June. Edible in 105 days. (Pkt. 5c) (oz. 20c) (1/4 lb. 70c) (lb. \$2.00) postpaid.



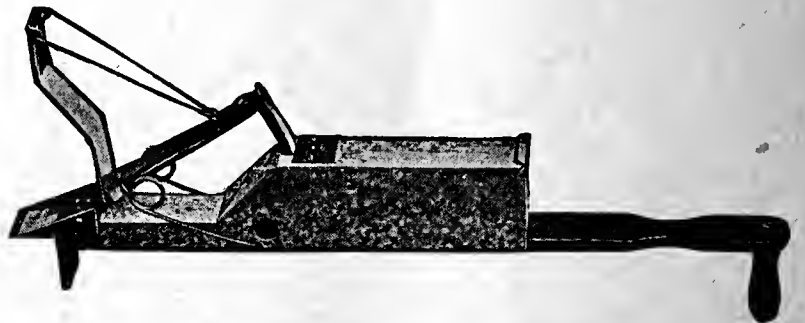
Santa Claus As the name implies, this variety is recommended for planting in June or July for gathering in the fall and holding for consumption in December and January. It is a fairly good keeper when stored in a cool ventilated place and care being taken that the fruits do not touch one another. It is a delightful present to send to your

FOR ALL KINDS OF MELONS

FOR APHIS—First keep the vines hardy by deep planting and proper cultivation, irrigation and fertilizing. Then if the aphid appears, spray with B. L. 40.

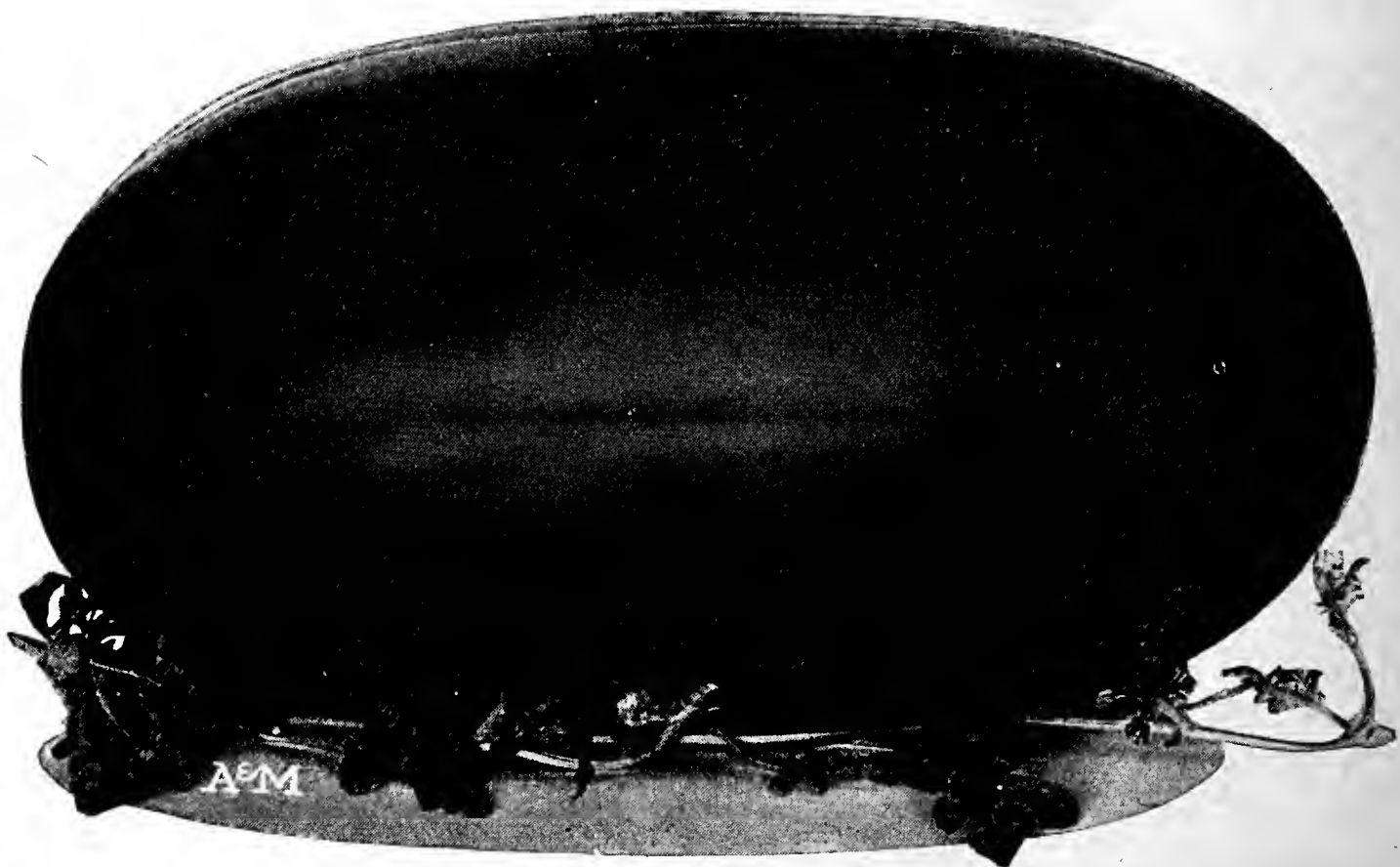
FOR MELON BLIGHT that is caused by a fungus at the root, spray the hill freely with Bordeaux so that the liquid will follow the stem several inches beneath the surface. This should be done as a precaution rather than as a remedy.

FOR MILDEW. Mildew probably destroys more melons than any other disease and is very difficult to eradicate once it attacks the vines. We recommend Fungusol Emulsion at 1 quart to 40 gals. of water for an effective clean-up. It also controls aphid and thrip (see page 86).



SEGMENT PLANTER

Growers who are planting a large acreage of melons will find this Planter will do the work in good time and do it well. It is especially good for replanting. Weight 5 lbs. Price \$2.00 by express. If wanted by mail, add postage.



A & M KLONDIKE WATERMELON—The best variety for Western conditions.

A & M Watermelons

A & M Klondike A & M Klondike Watermelon is without doubt the most popular melon in the State of California. We introduced the Klondike in 1909 and naturally we are very proud of its present reputation. The Imperial Valley alone grows several thousand acres of them for shipment to outside territory and they are always the first melon to arrive on the Los Angeles market. The meat is a rich, bright red and very appetizing. Vendors along the boulevards always cut a Klondike when they wish to attract customers. The rind is thick enough to protect the melon in shipping and yet it is not a thick, heavy rind like many varieties. If you are planting for market or for home consumption you will not go wrong by planting the Klondike. Average weight 25 pounds. Edible in 87 days. The genuine A & M strain is put up in sealed bags for your protection. We have both the brown seed and black seed strains. (Pkt. 5c) (oz. 20c) (1/4 lb. 65c) (1 lb. \$2.00) (5 lbs. \$9.50) (10 lbs. \$18.00) postpaid.

Stone Mountain This melon, very popular in the South, grows very large and is almost round. It is rich dark green in color, has a medium rind and the flesh is deep red. It is drought resisting and will produce a profitable crop of late melons when other melons are sometimes scarce. Edible in 94 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Black Seeded Chilean Its thin rind and delicious flavor make this one of the best home garden varieties. Our strain of seed produces a good shipping melon and one that is a favorite not only with the grower but with the dealer. It is very prolific and very desirable for market. Average weight 18 lbs. Edible in 85 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 45c) (lb. \$1.25) postpaid.

White Seeded Chilean Just as much to be desired as the black seeded variety, except to those who prefer the black seed. All Chilians are good regardless of the color of the seed, but the black seeded one is planted for the early crop. Average weight 18 lbs. Edible in 85 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 45c) (lb. \$1.25) postpaid.

Black Seeded Angeleno This is another triumph for Aggeler and Musser Seed Company.

As a shipper it is extraordinary because it rarely breaks, even supporting the weight of a man weighing 170 pounds. It is nearly round. Average weight 20 lbs. Edible in 90 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) (5 lbs. \$6.50) (10 lbs. \$11.50) postpaid.

White Seeded Angeleno Large size, beautiful dark green rind with a tinge of gold showing through the green. No other variety compares with the Angeleno in its bright red flesh, red to the rind, and it is entirely free from fibre. It is nearly round. Average weight 20 lbs. Edible in 90 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) (5 lbs. \$6.50) (10 lbs. \$11.50) postpaid.

Excel To the grower and shipper who wants a large melon the Excel fills the bill. It is oblong, dark green with a suspicion of a stripe, and will average 35 lbs. and is of excellent flavor. It is a good shipper and has maintained its popularity for many years. The rind is very thick and is used extensively for watermelon preserves. Edible in 100 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 40c) (lb. \$1.25) postpaid.

Kleckley Sweet

This is an excellent melon either for the home garden or for shipping. It is of medium size, a very green rind, with deep red flesh of delicious flavor. Often grows to 50 pounds in weight. Edible in 87 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 40c) (lb. \$1.25) postpaid.

Florida Favorite

This melon is very popular with shippers, because of its extreme earliness, and all round good qualities as a good shipper. In appearance it is similar to the Rattlesnake, the rind being considerably darker. Average weight 30 lb. Edible in 87 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 40c) (lb. \$1.25) postpaid.



A & M Winter Melon (King and Queen)

Culture Generally speaking, the same cultural directions for muskmelons apply also to watermelons. Plant the seed in furrows, dropping ten seeds every eight or ten feet apart; cover about one inch. The furrows should be eight feet apart. When the plants are established, thin out, leaving two vines to the hill. Plant 1 to 1 1/2 lbs. of seed to the acre.



Black Seeded Chilean

Tom Watson has for several seasons been the most popular melon in the South. Its shape is similar to the Kleckley Sweet, but the color is a lighter green. Its great merit is in its good flavor, thin rind, and good keeping qualities, making it one of the best of shippers. Weight 40 lbs. Edible in 92 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 45c) (lb. \$1.25) postpaid.

Rattlesnake Has long been a popular melon with shippers. It is a long melon, having a white rind, with dark green stripes. Flesh of excellent flavor. Average weight 30 lbs. Edible in 92 days. (Pkt. 5c) (oz. 15c) (1/4 lb. 40c) (lb. \$1.25) postpaid.

Yellow-Fleshed Ice Cream This melon grows a very large size, is long in shape and the rind an even dark green. In quality it is simply delicious, sugary and of a rich flavor peculiar to itself. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Winter Melon The flavor when cold is sweet, crisp and surprisingly delicious and when you have finished you realize that you have eaten a melon as entirely distinct from a water melon, as the Casaba is apart from the Cantaloupe and just as delicious. Like the Casaba it should not be eaten right off the vine, but be allowed to lie around until the first signs of decay. It decays slowly like an apple, not like other watermelons. Average weight 10 lbs. Edible in 85 days. (Pkt. 5c) (oz. 35c) (1/4 lb. \$1.00) (lb. \$3.00) postpaid.

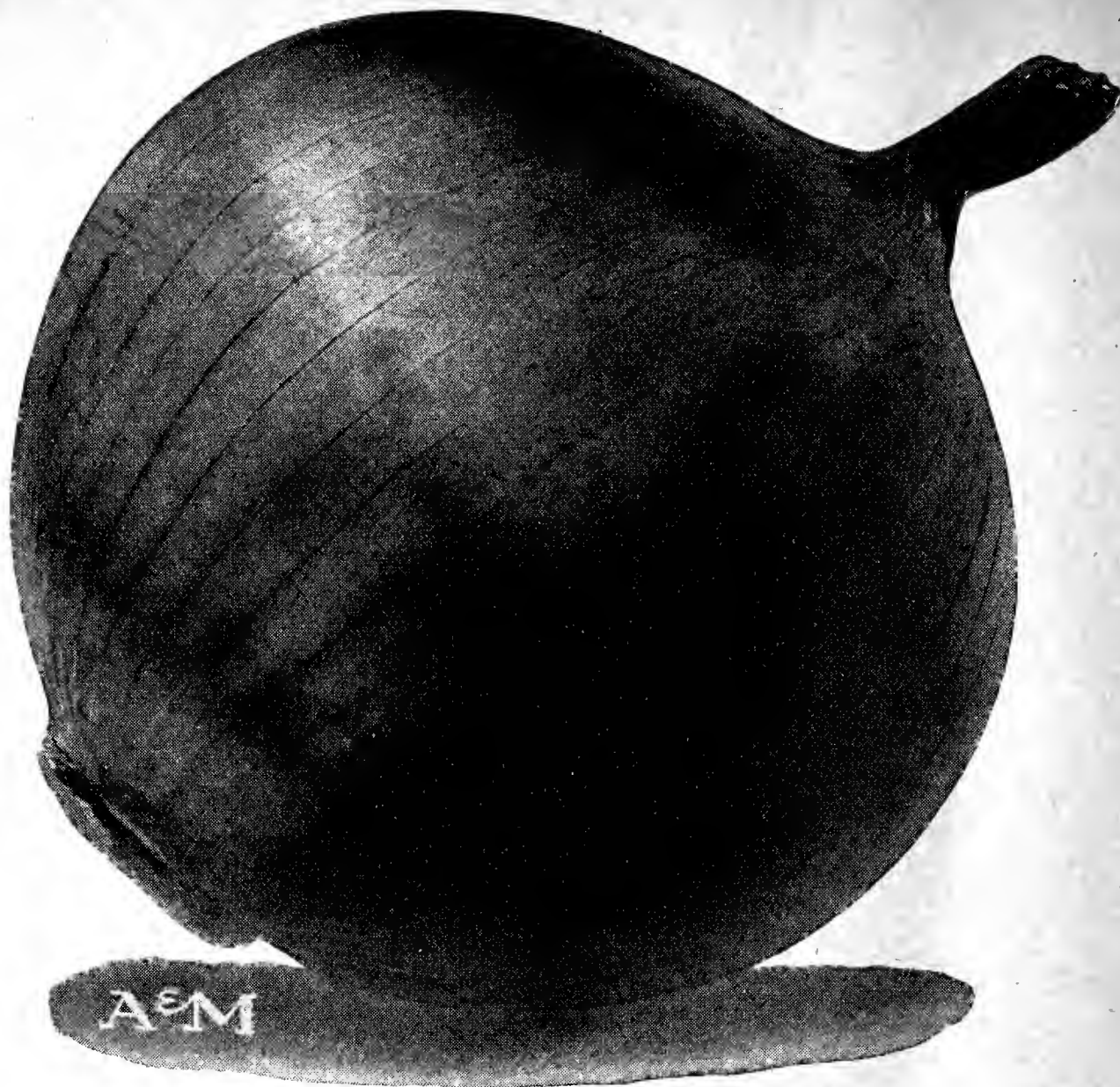
Citron Large Green

Grows to a length of 20 to 30 inches and weighs from 30 to 60 lbs. Is better than pumpkin for stock. Allowed to lay in field or piled in the barnyard will not be damaged by frost nor decay until the following summer. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Preserving Citron

Red Seeded, small round melon. This melon with a proper portion of lemon makes an excellent preserve that is as good as marmalade. (Pkt. 5c) (oz. 15c) (1/4 lb. 40c) (lb. \$1.25) postpaid.

A & M Onions



A & M Riverside Sweet Spanish Onion

A & M RIVERSIDE SWEET SPANISH

A & M Riverside Sweet Spanish Onion is a separate and distinct strain of the original imported sweet Spanish onion and was developed by us a few years ago. By careful plant selection we have each year improved the type until the A & M Riverside Sweet Spanish Onion is recognized by best authorities as superior to all other strains in flavor, mildness, good keeping qualities and yield per acre. This onion is very popular and commands the highest market price.

It is a large, well shaped brown onion weighing from 1 to 3 pounds. It is unusually mild but still retains its genuine onion flavor. Planted at the proper time and thoroughly cured it is a good keeper and will ship as good as any other shipping onion. It requires about 3 pounds of seed to plant one acre, if planting is made directly in the field. For best results sow in November-December; however it may also be

planted in the spring. Planting in the seed bed for transplanting requires about 1½ pounds of seed per acre. In irrigated districts plant in double rows on ridges, having the rows on the ridges about 8-10 inches apart and 24 inches between the double rows. The size of the onion can be regulated by the distance between onions and the closer they are together, the smaller will be the onion. To produce the larger size they should be thinned to 6 or 8 inches between plants. It is important to keep a uniform moisture content in the soil and to keep them growing continuously from the time they are up until harvested. Drying off from lack of moisture may start new buds and may result in splits or goose-necks. Yields are as high as 50,000 pounds per acre. Our seed is packed in sealed bags for your protection. (Pkt. 5c) (oz. 30c) (¼ lb. \$1.00) (1 lb. \$3.00) postpaid. No onion sets of this variety.

A & M WHITE SWEET SPANISH

In flavor, uniformity and mildness this new onion is just as good as the now famous A & M Riverside Sweet Spanish. It is a good keeper, good shipper and the pure white skin is of course most desirable. Many letters of recommendation have come to us from all parts of the country indicating that it may be successfully grown in any soil where other onions are being produced. Many growers and dealers are trying to imitate the A & M Riverside Sweet Spanish and the A & M White Sweet Spanish and we have found in many cases

where growers have been disappointed in their crops because the seed they planted was not the true variety. These two onions are genuine A & M introductions and they are not some other variety renamed. The seed crops are grown under our personal supervision so that we are in a position to furnish true type stock without any danger of mixture. For your protection as well as ours, the seed of these is packed in specially printed and sealed bags. (Pkt. 5c) (oz. 40c) (¼ lb. \$1.35) (1 lb. \$4.00) postpaid.

Two A & M Super Fine Strains of Onion—Grown from Coast to Coast

A & M Onions—Continued

Culture No crop is so liable to variations by cultivation and soil as Onions. Having rich soil with too much irrigation will produce thick-necked scallions and sometimes doubles and splits, while the same soil well drained would produce the finest Onions. A sandy soil well fertilized is best.

In some instances seed is drilled directly in the field and thinned the same as Lettuce and for this purpose 3 lbs. of seed per acre is necessary. However we advise sowing in seed beds and transplanting. This gives more uniformity of size, eliminates a great many splits and doubles, and Onions mature more evenly. It also eliminates the necessity of one or two weedings as the field can be prepared immediately before setting out the plants. For the transplanting method 1-2 lbs. of seed is sufficient to produce plants for an acre. The young Onions are ready for re-setting when they are from 6 weeks to 2 months old. They should have the tops trimmed off to the center blade and the roots trimmed to $\frac{1}{2}$ to 1 inch in length. The double row system in the field is preferable where weeds are few. The rows on the ridges should be 8-10 inches apart. Irrigate in the furrows between the ridges to avoid flooding the Onions which causes them to rot readily.

In Central and Southern California seed is planted in September for early spring onions and from November to March 1st for later crops.

Australian Brown Quick to mature; a good keeper; solid and heavy; an excellent onion for shipping. The skin is a light brown. Its solidity gives it great weight and a sack weighs several pounds heavier than a sack of many other kinds. The onions are thin-necked and ripen very early in all soils. As the plant makes a very quick growth it matures the bulbs before the hot, dry summer weather sets in, and this in connection with the exceptional keeping qualities makes it a most profitable variety. (Pkt. 5c) (oz. 20c) ($\frac{1}{4}$ lb. 60c) (lb. \$1.75) postpaid.

Southport White Globe There is an increasing demand for white onions and this variety is very popular being used extensively for shipping purposes. It is a good keeper, either in the field or in cold storage. It is silvery white in color, globe shaped and of delicious flavor. (Pkt. 5c) (oz. 25c) ($\frac{1}{4}$ lb. 85c) (lb. \$2.50) postpaid.

Extra Early White Queen This is one of the best onions to plant for early production in Southern California. Planted during August and September it attains marketable size in March and April and is sold on the local market as early as the Bermuda. Local growers market them while quite young, cutting the top off close to the onion. They harvest only what can be sold from day to day. The best variety for pickling. (Pkt. 5c) (oz. 30c) ($\frac{1}{4}$ lb. \$1.00) (lb. \$3.00) postpaid.



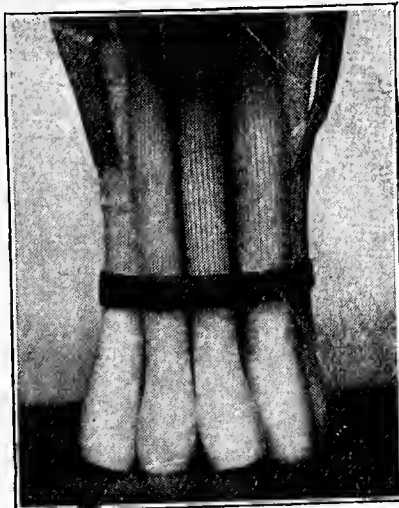
Crystal Wax

Crystal Wax The Crystal Wax is a medium sized pure waxy white onion and is one of the mild-est sorts grown. The seed of this variety is generally sown in seed beds and the plants transplanted to the field when they are five or six inches high. Planted the latter part of September, they mature in March and April and usually bring the highest market price. It is grown extensively in Southern California and Texas. (Pkt. 5c) (oz. 30c) ($\frac{1}{4}$ lb. \$1.00) (lb. \$3.00) postpaid.

White Portugal, or Silverskin A good second early white flat onion to follow the Extra Early White Queen. It should be planted any time from November 1st until April 1st. It is a good keeper and desired for shipping. Under good cultivation the average diameter is from four to six inches. (Pkt. 5c) (oz. 25c) ($\frac{1}{4}$ lb. 85c) (lb. \$2.50) postpaid.

Yellow Bermuda This variety goes hand in hand with the Crystal Wax and should be given the same culture. It is about the same size as the Crystal Wax but is a yellow straw color and is slightly better for shipping over long distances. (Pkt. 5c) (oz. 25c) ($\frac{1}{4}$ lb. 85c) (lb. \$2.50) postpaid.

Yellow-Globe Danvers The shape is almost globe form and the bulbs are quite large with thin necks. The skin is a straw yellow, while the flesh is pure white, solid and of good quality. Its earliness makes it valuable for market. The crop is very uniform and ripens at one time. (Pkt. 5c) (oz. 20c) ($\frac{1}{4}$ lb. 65c) (lb. \$2.00) postpaid.



A & M Bunching Onion

For bunching onions sow 10 lbs. seed per acre or $\frac{1}{4}$ lb. to a 100-foot row.

Many think any white onion will do for a bunching onion, but this is not true. Our growers for fancy trade have learned that we have the best strain of seed for this purpose, and our sales amount to thousands of lbs. each year. The picture shows a sample of what our seeds produce. They are just the right shape. (Pkt. 5c) (oz. 25c) ($\frac{1}{4}$ lb. 85c) (lb. \$2.50) postpaid.

Red Bermuda In shape, like the White Bermuda, color a pale red.

Planted during January matures latter part of June. No other onion is ready for use so quickly after planting seed. It is the right onion for the home garden. (Pkt. 5c) (oz. 40c) ($\frac{1}{4}$ lb. \$1.35) (lb. \$4.00) postpaid.

Red Wethersfield Probably the most popular red onion, and the one grown more largely throughout the United States than any other. It is a large medium flat onion of excellent mild flavor. (Pkt. 5c) (oz. 20c) ($\frac{1}{4}$ lb. 70c) (lb. \$2.00) postpaid.

The Italian Red Bottle Onion is as popular in some sections of Northern California as is the Sweet Spanish Onion in Southern California. It grows as large, weighing 3 to 4 pounds and has a similar sweet, non-pungent flavor.

Whether you grow for the local market or in the home garden, you will make no mistake to plant this onion. Any consumer who once having eaten them will want more. (Pkt. 5c) (oz. 60c) ($\frac{1}{4}$ lb. \$2.00) (lb. \$6.00) postpaid.

A & M Onion Sets

The earliest onions are grown from sets planted in September. This brings them in the market in February and March, when prices are highest. About 250 lbs. of sets will plant one acre.

State whether you wish white sets or yellow. We have no sets of the Riverside Sweet Spanish. Set them three inches apart in rows six inches apart. When ready for use, take up every other one as needed, allowing the balance to grow to mature size. One pound of sets will plant about fifty feet of row. (Lb. 35c postpaid) (10 lbs. \$3.00 postpaid). Write for quantity prices.



The proper way to grow Onions is on ridges

A & M Garden Peas

Market gardeners write for quantity prices on all varieties.

Culture Peas are very susceptible to soil and climate. Within the radius of a few miles of Los Angeles and in one locality or another, peas may be grown every month of the year.

In a thermal zone plant peas from September 1st to February 1st, and in lowlands from January 1st to September 1st. In summer months, from May to September, plant two inches deep in heavy soil and deeper in sandy soil. From December to April plant not more than one inch deep. The object of this is to have the seed deep enough to lie in the moist earth, and shallow enough to get warmth from the sun. Never irrigate after planting peas until they come up. Irrigate before planting, but do not plant until the soil is tillable.

Peas will rot in soil that is too wet, especially during the winter months. They will stand a great deal of frost and cold weather until they bloom, but after they bloom a heavy frost will destroy the pods, and if cold enough, will kill the vines. Many planters sow one hundred pounds of seed per acre, but fifty pounds of seed per acre drilled in rows and well cultivated will produce larger pods and more peas per acre; besides, there will be less mildew. If mildew appears, dust with sulphur. Put the rows north and south for winter planting to give them as much sun as possible. Drill in rows 2-2½ feet apart. For the home garden 1 lb. will plant 150 feet.

All varieties listed are suitable for spring but the following are best adapted for planting in the fall in California: Hundredfold, Laxton's Progress, Dwarf Telephone, Laxtonian, Admiral and Stratagem.

Alderman Very popular for the market gardening trade especially where the plants can be staked up or twine used between posts. This pea is grown extensively in the central San Joaquin Valley and on the coast where a tall growing variety is desired. The pods are extremely large, dark green and well filled. Height 4-5 feet. 72 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Admiral or Senator This is still one of the favorite varieties in some sections of Southern California. It has dark green foliage, large branching vines, bears abundantly and the pods are large and well filled. In favored sections it matures in about twelve weeks from planting. We suggest that commercial growers include a few of these in their order and try them out. Height 2½ feet; 77 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

American Wonder The earliest of all wrinkled peas. Of dwarf habit, growing from 9 to 11 inches high, and producing a profusion of good-sized and well-filled pods of the finest flavor. 60 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

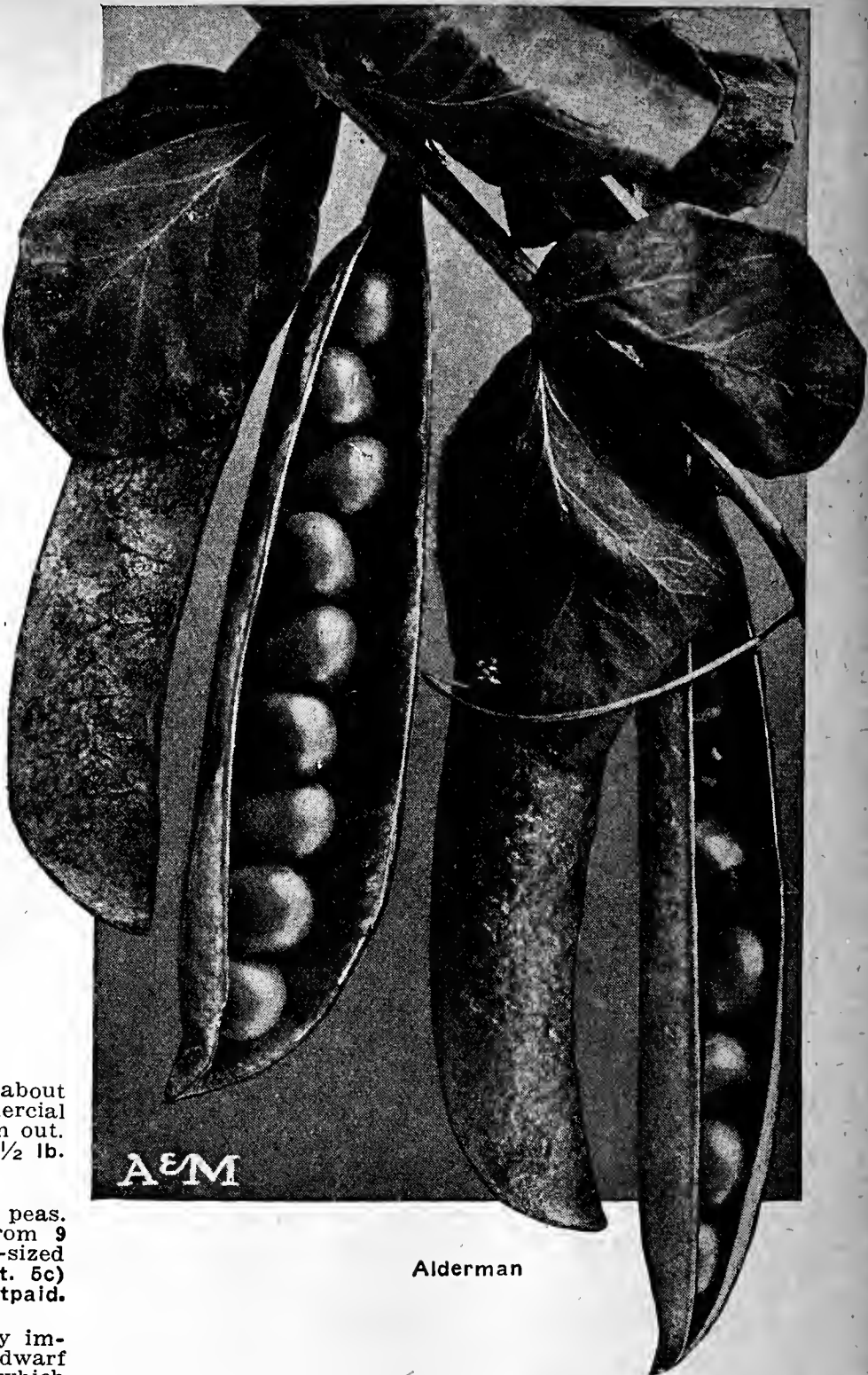
A & M Special Dwarf Telephone A highly improved dwarf Telephone Pea. It is a real dark, large podded variety which has shown very fine qualities in various trials. The growth is similar to the ordinary Dwarf Telephone with the exception of a darker foliage, and a much darker green and larger pod. Height 20 inches; 75 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 25c) (lb. 40c) (10 lbs. \$3.50) postpaid.

Dwarf Telephone Medium tall; pods very large; medium green peas, very sweet; a favorite with shippers because it carries well and commands a high price because of quality. Height 20 inches; 75 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Dwarf Gray Sugar (Edible pods.) Of extraordinary yielding qualities, and unsurpassed as an edible pod variety. (Pkt. 5c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

A & M Hundredfold Plantings of these in the Imperial Valley and other pea producing sections have aroused considerable enthusiasm for the variety and it is now considered one of the leading varieties. It is dwarf, stands up well, and produces abundantly. The large pods are well filled with highly flavored and sweet peas. Height 18 inches; 65 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (1 lb. 35c) (10 lbs. \$3.00) postpaid.

Laxton's Progress Similar type of pea to Laxtonian, foliage being of a dark green color. The pods are long and also of a dark hue. It is a very desirable variety and has become very popular with market gardeners. For home gardens it is also highly recommended. Height 18 inches; 64 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.



Alderman

A & M Laxtonian In habit of growth it is medium dwarf, bearing pods five to six inches long, and yielding enormously. September plantings in the Imperial Valley are ready for picking in November. Height 18 inches; 67 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Tall Telephone Vines vigorous, tall growing with large, coarse, light colored leaves and producing an abundance of very large pods filled with immense peas which are tender, sweet, and of excellent flavor. If grown on poles or trellis in the same manner as Kentucky Wonder Beans, more pods are produced and they are larger and brighter in appearance. Height 4-5 feet; 72 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Stratagem The Stratagem has been a favorite among market gardeners and it is just as good for the home garden as it is for larger acreages. The pods are a dark green color and remain firm several days after picking. It is a strong grower, very prolific, the pods are of good size and are always well filled. The vines usually stand upright, to a height of about 2 feet on good soil and they are very productive. The dark green color of the pod makes it a good seller in all markets and in addition to this the grower is usually rewarded with a good yield. 83 days. (Pkt. 5c) (Jumbo Pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

For Aphis and Mildew as well as Rust on Peas, use Fungusol Emulsion at the rate of 1 quart to 40 gallons of water. Control will be very effective. See Page 86.

NOTE—For increased yield, inoculate peas before sowing with McQueen's Inoculator

A & M Pumpkin



Estampes

Estampes A highly recommended variety for canning purposes, for pie and for stock. The pumpkins are an attractive dark orange with deep red flesh of fine flavor. They are flat in shape with deep ridges and weigh up to 100 lbs. each. (Pkt. 5c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Kentucky Field or Large Cheese This variety is locally called Sweet Pumpkin, and is grown more than any other of its kind for stock, because it is a good keeper, notwithstanding it has a soft shell. It is fleshy and very sweet; also good for pie, and is largely used for canning. On one large ranch in the San Fernando Valley there was planted a large acreage to nearly all the popular varieties; this one was unaffected by the hot sun, and remained in perfect condition while other varieties were sun-burned and decayed quickly. (Pkt. 5c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

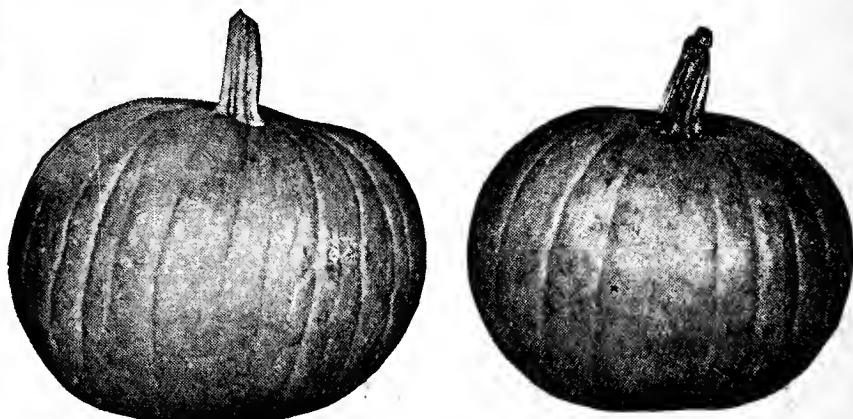
Connecticut Field (The Jack-o'-Lantern)—This is the pumpkin planted largely for the Hallowe'en and Thanksgiving trade. Twenty tons to the acre is no unusual yield. If the land has been manured liberally a full crop can be grown among corn. It is a most excellent keeper, and will be sure wealth to all who grow and feed it liberally. (Pkt. 5c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Culture Pumpkins delight in rich, sandy soil that is perpetually moist—the soil that retains moisture by the dry farming method, because pumpkins do not want too much water, and to flood them would destroy them, so when irrigating make the furrows nearly as far from the hill as the tip of the vine, and when the vines intersect, run the water through the middle of the row. Plant the seeds every 8 or 10 feet, allowing only one plant to remain. 1 lb. of seed plants an acre.

Mammoth King This is the large pumpkin so well known locally. As many as 20 tons have been taken from one acre. It not infrequently attains a weight of 200 pounds. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Cushaw or Crookneck This excellent pumpkin ought to be planted more largely. There is more pumpkin for its size because of the small seed cavity. It is excellent for pies, and yields enormously. (Pkt. 5c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Sandwich Island The most popular pumpkin in Ventura County. It is as hardy as a citron. A good one to plant where water is scarce. (Pkt. 5c) (1/4 lb. 35c) (lb. \$1.00) postpaid.



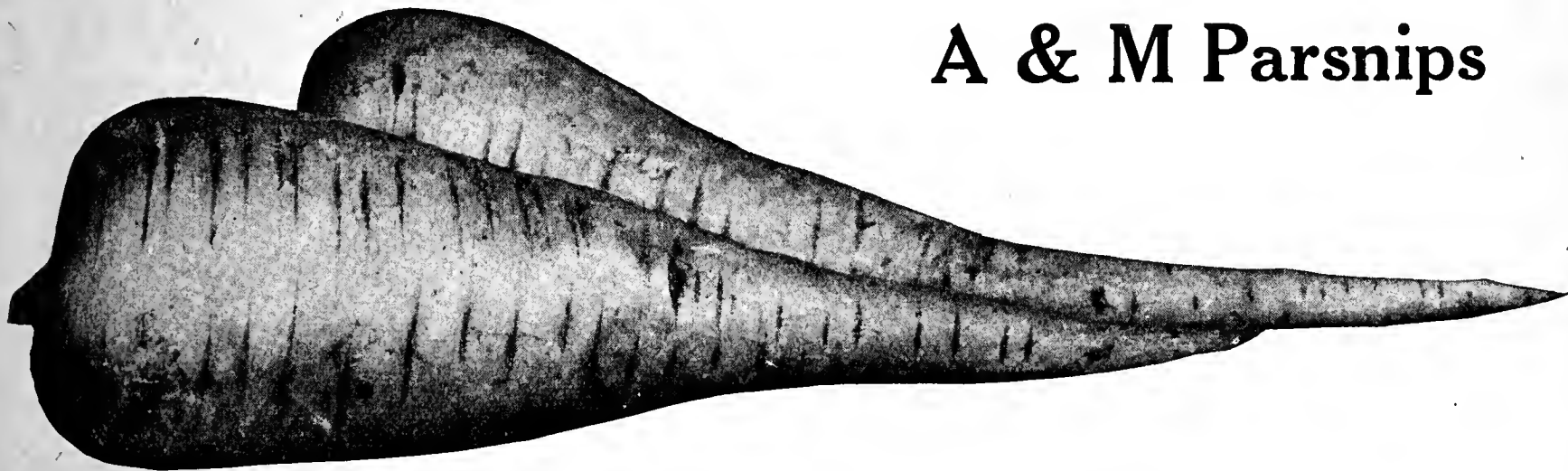
Sugar, or Boston Pie

Sugar or Boston Pie A small handsome variety, and very popular. The skin is a deep orange yellow; flesh fine grained and sweet in taste. Famous in Boston as a pie pumpkin. It sells better on our local market than any other variety except the Jack o' Lantern at Hallowe'en time. (Pkt. 5c) (1/4 lb. 45c) (lb. \$1.25) postpaid.

Pumpkin Seed for Medicinal Purposes

Pumpkin Seed is oftentimes in demand in the case of certain ailments, the seed being steeped in the same manner as tea. We can offer seed suitable for this purpose. (1/4 lb. 35c) (lb. \$1.00) postpaid.

A & M Parsnips



Culture The seed of parsnips should be sown during the fall and winter months in Southern California and similar climates. It requires about one ounce of seed to plant a 100 ft. row and about 5 lbs. per acre. Do not apply manure soon before planting, for it tends to make coarse roots of uneven shape.

A & M Special Long White This parsnip is a great improvement over the older strains. The roots grow to a good length but not too long and are of uniformly nice shape. The color is a pure snow white adding further to the attractive appearance of the roots. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

A & M Hollow Crown This variety is in general use for both table and stock feeding. The color is pure white, it is uniformly smooth and is of good texture and flavor. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

French Half Long There is a great demand for this Parsnip because it has all of the good qualities of other parsnips and only grows about one-half as long. It is easily harvested, is of good quality, being tender and crisp at all times. It is very desirable particularly for heavy soils and is a good home garden variety because it is easily dug. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

A & M Peppers



A & M California Wonder

A & M Chinese Giant There is probably no better strain of this pepper than the one we have and since we have given particular attention to selection for uniform shape, we think we have the finest strain for shipping purposes. The sidewalls are thick and where they are given proper cultivation the yield is enormous. (Pkt. 5c) (oz. 65c) (1/4 lb. \$2.25) (lb. \$6.50) postpaid.

A & M Pimiento Every home garden should have a row of this Pimiento. For salad parboil it to remove the skin. Stuffed and baked it is far superior to all other peppers. It is used extensively by canneries for preserving for salads. (Pkt. 5c) (oz. 45c) (1/4 lb. \$1.50) (lb. \$4.50) postpaid.

Perfection Pimiento One of the mildest flavoured peppers in cultivation—so mild it can be eaten raw as an apple. It is an excellent salad pepper and is also much in demand for canning. In size it is much larger than the ordinary Pimiento. (Pkt. 5c) (oz. 60c) (1/4 lb. \$2.00) (lb. \$6.00) postpaid.

Bell or Bull Nose Do not confuse this with the Chinese Giant. It is similar in shape but scarcely more than half as large. It is much more prolific and a very desirable variety for the home garden. (Pkt. 5c) (oz. 45c) (1/4 lb. \$1.50) (lb. \$4.50) postpaid.

Ruby King A very satisfactory pepper for the home garden and used to some extent by market gardeners. It bears in profusion, handsome fruit, 4 to 5 inches in length and about 3 inches in diameter. Fruits are a rich, dark green while young, turning ruby red when ripe and the flesh is thick and meaty. (Pkt. 5c) (oz. 50c) (1/4 lb. \$1.65) (lb. \$5.00) postpaid.

Gardening Books

The following books are standard and authentic works on Vegetable and Flower cultivation. They were written expressly for California and similar sections by the late Professor E. J. Wickson.

California Vegetables in Garden and Field (300 pages), each \$2.50, by mail \$2.60.

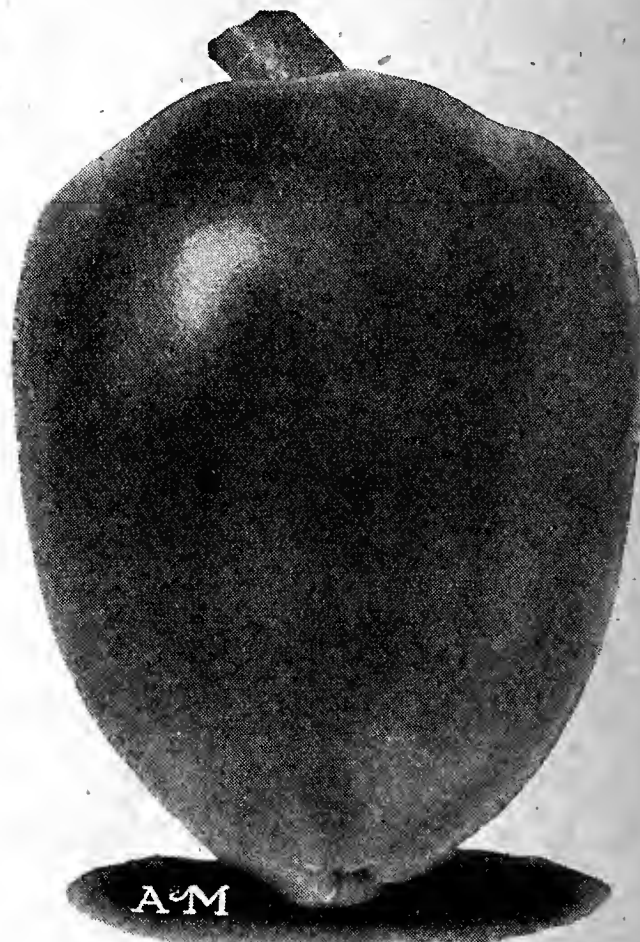
California Fruits and How to Grow Them (500 pages), each \$4.00, by mail \$4.10.

Culture For early green peppers, sow seed in hot beds in December and January. Transplant as soon as weather and soil in your locality will permit. For main crop sow seed in February, March and April, in hot bed. Pepper seeds need the heat of a hot bed to germinate it during these months. For fall and winter crop sow seed in out-door beds well prepared, during May and June. Winter crops can be grown in places that are entirely frostless. Sow at the rate of 6 ozs. of seed per acre.

For field culture the plants are set eighteen inches apart in rows 3 to 4 feet apart.

A & M California Wonder Pepper

In size these superb peppers average 4 inches in length and 3 1/2 inches in diameter, with a very slight taper, making them almost square. The weight is approximately 9 ozs., which is considerably heavier than any other pepper of the same size. This additional weight is due to the thick walls which are very meaty, being 1/4 to 3/8 inches in thickness. Because of the shape they pack well for shipping and being solid will not wilt in transit. The rich, deep green skin is smooth and glossy. This variety is also excellent for the home garden and when used for salad purposes, for stuffing or otherwise, will please the most critical. We have specialized in peppers for a number of years and consider this one of the most important introductions of recent times. (Pkt. 5c) (oz. 70c) (1/4 lb. \$2.35) (lb. \$7.00) postpaid.



Perfection Pimiento

The Tomato and Pepper Seed which I ordered from you in January are the best I have ever planted. I think every seed came up.
C. E. R., Yava, Ariz.



HOTKAPS protect against frost, wind, rain, hail, birds and insects.
(See Page 78)

Peppers—Continued



Anaheim Chili

Anaheim Chili Peppers Anaheim Chili is desired above all others for culinary use because of its agreeable pungency. Other pungent varieties are intolerable, not so with the Anaheim Chili. That is what makes it the best seller in the market and the best pungent variety for canning. (Pkt. 5c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00) postpaid.

Spanish Gem Like the Floral Gem it is very pungent with a flavor that is desired for pickling. In size it will average from ¾ to 1 inch in diameter, and 1 inch to 1½ inches in length. It is marketed when quite yellow. (Pkt. 5c) (oz. 75c).

Green Mexican Pickling (New.) This variety is widely grown in Mexico, where it is used extensively for pickling and seasoning. The peppers are dark glossy green, thick meated, and very pungent—in fact are one of the hottest in cultivation. They average 1½-2 inches in length and 1¼ inches in diameter. (Pkt. 5c) (oz. 75c) (¼ lb. \$2.25) (lb. \$8.00) postpaid.

Floral Gem This beautiful yellow pepper became popular several years ago. It is 1½ inches in diameter, 1½ to 3 inches long, delightfully pungent with a flavor quite distinct from other peppers, and commands an independent price. The supply has not yet caught up with the ever-increasing demand. This pepper turns from green to a beautiful waxy yellow. When mature it is red. It is marketed when yellow. (Pkt. 5c) (oz. 75c) ¼ lb. \$2.25) (lb. \$8.00) postpaid.

Mexican Chili In a class by itself on account of its extreme pungency. It is not canned but is used almost exclusively for grinding and sold as cayenne, the trade of which is surprising. Our seed is pure and taken from selected peppers grown far from other varieties. (Pkt. 5c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

Cayenne A long, slim pepper, rather pointed, and when ripe, a bright red color. Extremely pungent. (Pkt. 5c) (oz. 70c) (¼ lb. \$2.20) (lb. \$7.00) postpaid.

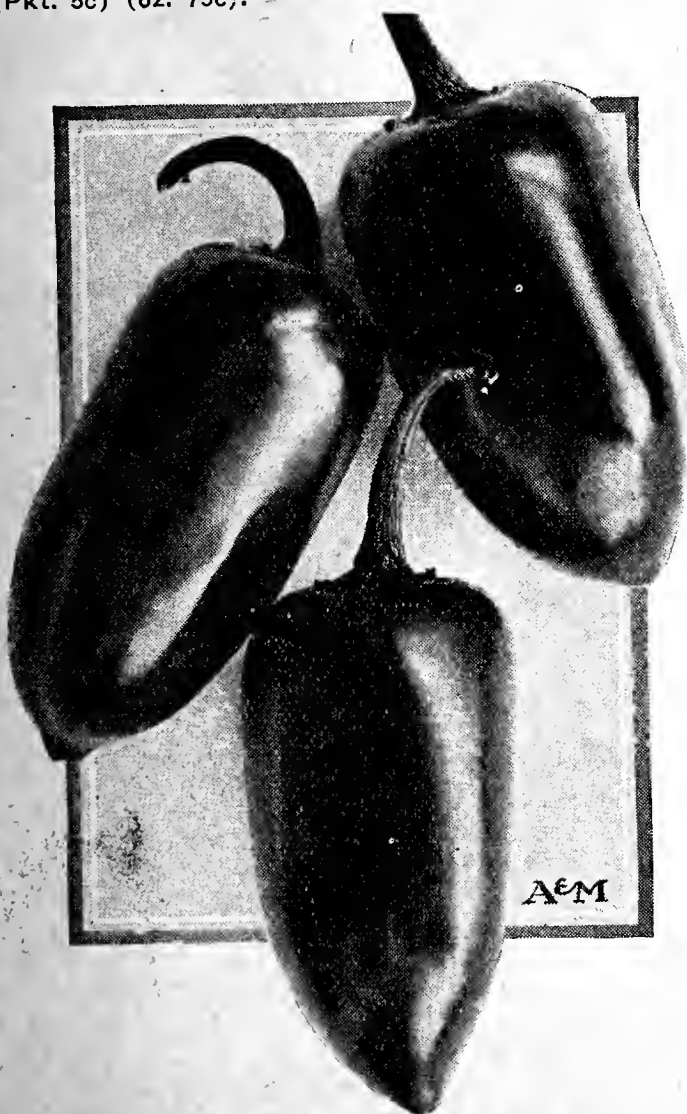
Cherry A very pungent pepper, round as a cherry, about one inch in diameter, marketed when green. Used largely in pickling and by the foreign trade. There is a profit to the person who will specialize on this and other small pungent peppers. (Pkt. 5c) (oz. 80c) postpaid.

A & M Peanuts

In sections where the soil and climate are suitable, the Peanut is a crop of general farm importance. They are valuable as a substitute for cowpeas, especially on soils that are not adapted to the growing of cowpeas. Peanuts require so little water they are profitable to grow between young orchard trees not yet bearing. They prefer a light porous soil that will readily clean from the nuts at harvest time. The time for planting should be after frosts are over. It is not generally known that Peanuts are highly resistant to nematode and will produce a good crop where black-eyed beans have failed from nematode infestation. If peanut straw is used on the land it will prove a great soil builder. It is a very fine alternating crop on bean, sweet potato or melon land, besides having a tendency to greatly reduce nematode. Write for Peanut Circular.

Virginia Improved This variety is much superior to the ordinary Peanuts. It should be planted in the hulls 15 inches apart in rows 30 inches apart. Planted at the rate of one nut to the hill, 85 lbs. are necessary to plant an acre. (Lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

Spanish Hulled These are grown largely for the confectionery trade and also used for salted peanuts. This variety is usually sown without the hull in rows 2 feet apart and about 1 foot apart in the rows. Not less than two kernels should be dropped in a hill. 45 lbs. are required to the acre. (Lb. 35c) (10 lbs. \$3.00) postpaid.



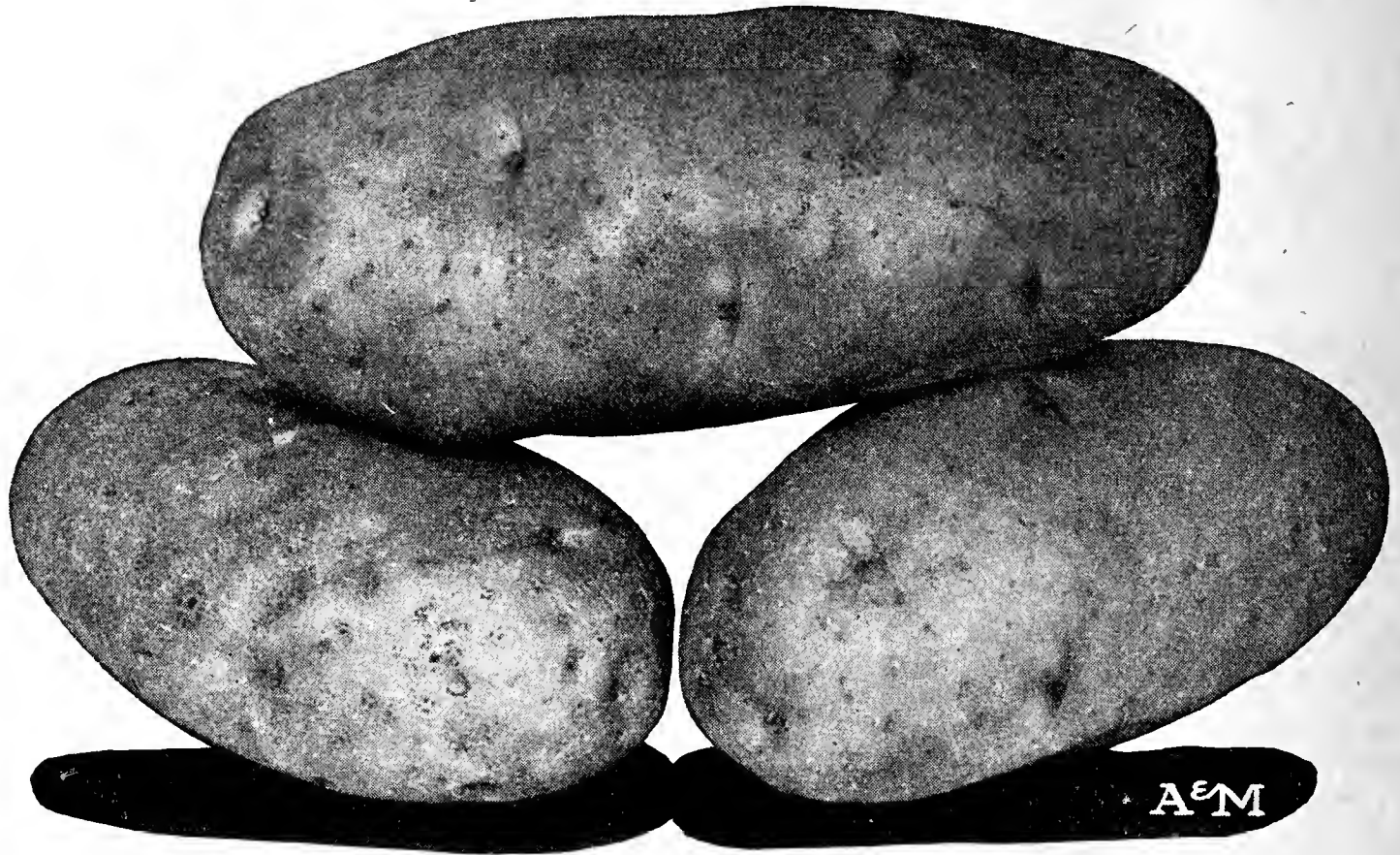
Green Mexican Pickling

A & M Potatoes

Culture Plant potatoes deeper in sandy soil than in heavier ground, a good average depth being 5 inches. They should be spaced 14 inches apart in the rows with the rows 30 inches apart. When dividing tubers for planting do not cut the pieces too small. Each piece should be at least one cubic inch and have at least two eyes. Better results will be obtained if the cut surface is allowed to dry or heal for 24 hours before planting, and some growers make a practice of dusting with sulphur or lime. Plant 600 pounds per acre for the spring crop and 800 to 900 lbs. per acre for early crops when potatoes are dug small. If potatoes follow alfalfa or melilotus, good yields can usually be obtained without the use of commercial fertilizer, but A & M Special Potato Fertilizer listed below will be found profitable. Keep the soil moist at all times. Do not judge moisture by the appearance of the plants as when they become dark green or begin to turn yellow it is then too late to apply water for best results. It is advisable to cultivate often to conserve moisture and keep down weeds. When cultivating, throw the earth toward the plants a little higher each time until at the last cultivation the ridges are six to ten inches high and broad in proportion so the tubers will be kept cool and free from tuber moth infection.

Potato Inspection All seed potatoes are subject to rigorous inspection by County Horticultural authorities, thus ensuring great protection to the grower.

Prices As market conditions vary considerably, we invite you to write for prices, stating quantity required and we will be pleased to quote lowest prices in conformity with our high standard of quality.



Early White Rose

Early White Rose The most popular potato for Southern California is undoubtedly Early White Rose, for the reason that for many years it has proven more satisfactory under varied conditions than other varieties. It is not particular as to soil. It matures quickly, making it a good variety to grow without irrigation and it is out of the ground before nematode and other enemies have done great injury. Because of its earliness it costs less to grow. In stock December 1st to May. (5 lbs. 30c) (10 lbs. 50c) (25 lbs. \$1.00) Postage extra. Write for quantity prices.

Early Red Rose This variety is generally cooked whole when quite young and is therefore very desirable for the home garden and for market lug box business, where there is a demand for new potatoes. Red potatoes do not have a ready sale in sack trade. Plant during December, January and February. (5 lbs. 30c) (10 lbs. 50c) (25 lbs. \$1.00) Postage extra. Write for quantity prices.

British Queen Especially profitable to grow for a fall crop as it stands drought and cool weather better than other sorts. Hundreds of acres are planted during the fall months on the hillsides along the coast and in other parts of the State. Our stock is grown and graded for seed purposes and we are thus in a position to furnish high grade seed. In stock October to February 1st. (5 lbs. 30c) (10 lbs. 50c) (25 lbs. \$1.00). Postage extra. Write for quantity prices.

A & M Special Potato Fertilizer Prepared especially for potatoes. (\$3.35 per 100 lbs.) f. o. b. Los Angeles. Write for quantity price.

DIP TREATMENT OF POTATOES

To growers who wish to disinfect potatoes before planting, we highly recommend SEMESAN BEL, a preparation designed specifically to furnish an easy, rapid and simple method of seed potato disinfection. Semesan Bel dries quickly on the seed forming a thin coating of disinfectant. Surface-borne organisms of rhizoctonia, scab and black leg are usually destroyed. The treatment also frequently promotes more uniform germination of seed pieces and often improves the stand and the vigor of the plants. Semesan Bel readily mixes with cold water. One pound will make 10 quarts of dip and will treat approximately 1,200 lbs. of whole or large seed pieces and about 850 lbs. of small or cut seed. **PRICES**—(4 oz. tin 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00) (25 lb. pail \$31.25) f. o. b. Los Angeles. Cannot be mailed. (Write for descriptive circular.)

A & M Roselle

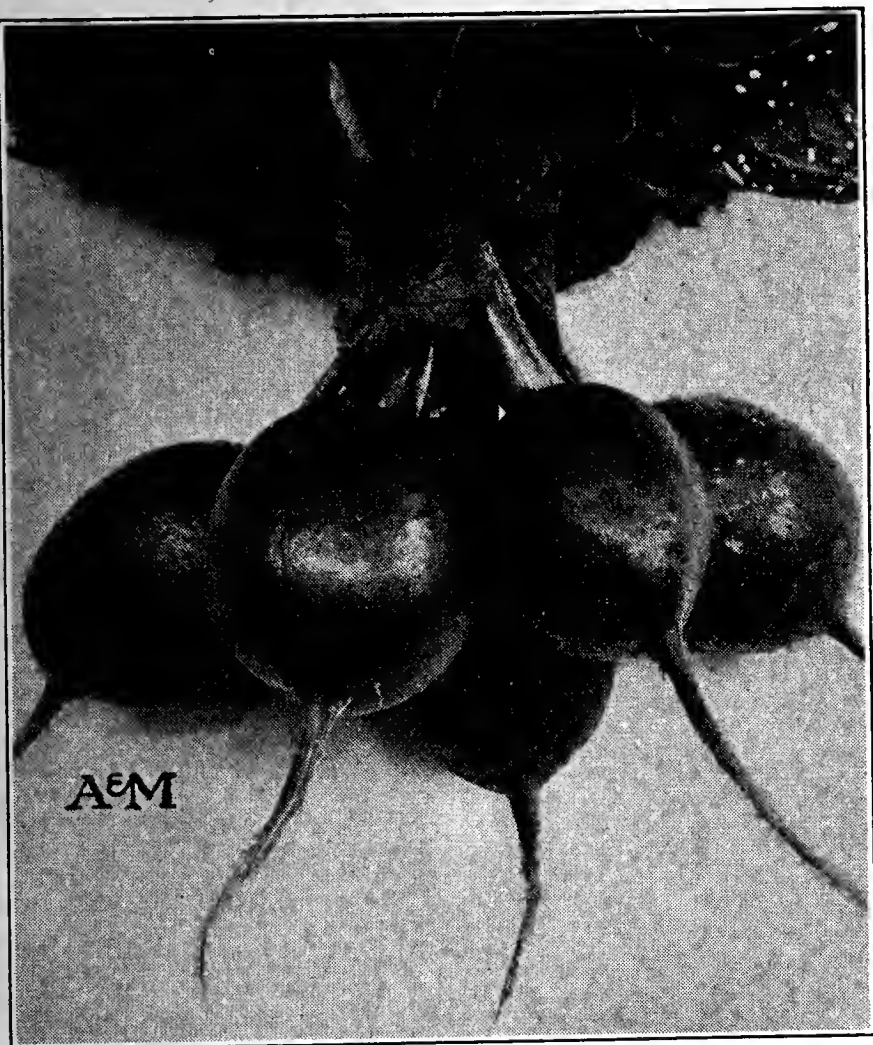
Culture — Sow seed early in April in the field, four feet apart, in rows six feet apart. Cultivate as Okra. There is an early and a late Roselle. Be sure to get the early variety, because the frost is almost sure to destroy the late variety before it matures. We offer only the early variety.

It is an annual plant that has been sufficiently tested to indicate its great value and to warrant more extended cultivation. The calyx surrounding the seed pod is used as soon as the flower drops for making jelly and jam. The jelly is superior to guava or currant, and labeled as "Queensland Jelly," is shipped from Australia to all parts of Europe. It is easily grown from seed if planted after the ground is warm; grows rapidly, resists drouth and is very ornamental. Every home garden should have a row of this ornamental and useful plant. (Pkt. 5c) (oz. 50c) (1/4 lb. \$1.75) post-paid.



Roselle Buds

A & M Radish



Early Scarlet Globe

Japanese All Season It is a very large, long, snow-white radish; deeply rooted, does not extend above the soil, hence it always is tender and crisp and has a delicious flavor. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Japanese Winter A half-long white radish more adapted to our winter climate: It compares very favorably with our American varieties, besides it is much larger. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Japanese Summer Its beautiful white color and mammoth size attracts great attention. It is very tender and the flavor is exceedingly mild. It attains perfection in California, growing twenty-six inches in length and three inches in diameter. It is a profitable radish to grow, as it sells readily. It is excellent cooked as a turnip. (Pkt. 5c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Culture Seed may be sown the year 'round in California. Radishes thrive best in light, sandy loam, made rich with manure. Sow in drills 10 inches apart. An ounce of seed will sow a hundred feet of row, 12 pounds to the acre.

Early Scarlet Globe Very popular variety on the Los Angeles market. The radishes are oval in shape and are a rich scarlet color. Used extensively by market growers. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) (5 lbs. \$4.50) (10 lbs. \$8.00) postpaid.

Scarlet Turnip White Tip A very attractive medium sized round Radish of bright scarlet with white tip. It is early and the flavor excellent. One of the most popular sorts both on the market and in the home garden. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) (5 lbs. \$4.50) (10 lbs. \$8.00) postpaid.

Early Scarlet Turnip One of the earliest and best sorts for forcing; its color is very handsome; flavor very mild, crisp and juicy; stands a great amount of heat without becoming pithy. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) (5 lbs. \$4.50) (10 lbs. \$8.00) postpaid.

French Breakfast A splendid variety, medium-sized, olive-shaped, very crisp and tender; of a beautiful scarlet color with white tip. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Crimson Giant A variety extraordinary in that, while growing to an unusually large size, it is always tender, crisp and of mild flavor. It remains in perfect condition a remarkably long time, and unlike other forcing varieties, does not become pithy; root turnip shaped; color a beautiful crimson; flesh firm and crisp. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Long White Icicle For the home garden we consider this a most excellent table variety. Its extreme earliness, beautiful, pure white appearance, excellent flavor and crispness should make it a favorite everywhere. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) (5 lbs. \$4.50) (10 lbs. \$8.00) postpaid.

Half Long Scarlet This variety should be more popular because it is just the right size for table use, not too large, never pithy, but always crisp and sweet. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Early Long Scarlet Very brittle and crisp; color a bright scarlet; small top. Six to eight inches long. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

China Rose A delicious radish, crisp, with little tendency to become pithy. Skin is a beautiful deep scarlet and flesh pure white. It is a good seller and is in great demand by the vegetable peddlers. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.

Try This

Plant the little round radishes in the same row at the same time with beets or carrots. The radishes will break the way for the beets and carrots and will be ready for pulling by the time they need the room.

Rhubarb

A & M Cherry

Write for Circular

This superb variety was first offered by us in 1925 and proved a sensation wherever grown. Shipments were made all over the country and the demand was beyond all expectation. This peerless strain is far superior to any we know. Indeed its beautiful cherry red appearance alone makes an instant appeal and in addition to this it is less tart than other sorts. There is no coarse fibre and the stems will keep in marketable condition for several weeks after maturity without becoming soft or pithy, as do most varieties. It grows to a desirable size and rarely runs to seed. Yields are prodigious, 500 40-lb. boxes per acre being the average cutting that may be expected in a warm climate. Four cuttings are usually made per year.

Roots should be planted by hand on level land, the crowns being placed 1/2 inch deep in heavy soils and 1 inch deep in sandy loam. Set 2 1/2 feet apart in rows 5 feet apart. Moisture must be kept to surface until plants are established. In districts where frosts would retard the growth, it is recommended that

planting be deferred until the latter part of February but in warmer locations roots may be set out earlier. Roots 25c each, \$2.50 per doz., postpaid. Not prepaid, \$17.50 per 100. We do not offer seed of this variety.

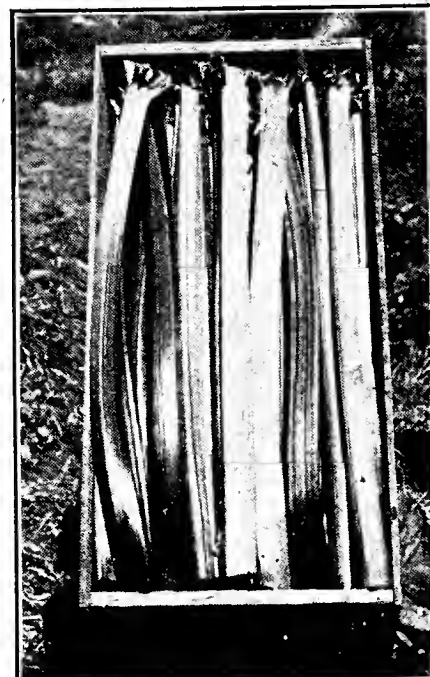
Giant Winter

ROOTS—This variety is very early and is a very desirable sort to grow. 15c each, \$1.50 per doz., postpaid.

SEED—Sow seed of Rhubarb any time from February 1 until July 1. Transplant when the roots are as large as a pencil. Within five months of sowing, the plants will bear large stems and grow nearly the entire year. Rhubarb seed will not always produce plants true to type. (Pkt. 5c) (oz. \$1.60) (1/4 lb. \$5.00) (lb. \$16.00) postpaid.

A NON-POISONOUS INSECTICIDE

If you are bothered with leaf-eating insects when your vegetable crops are nearly ready for the table, KALITE can be used with great effect. It is non-poisonous and can be mailed. See Page 86.



A & M Spinach

Market gardeners write for quantity prices.

Culture Sow in drills, one foot apart, and for succession, every two weeks; as it grows, thin out for use, keeping clean of weeds. It grows the year round in California. Sow one ounce of seed for 100 feet of drill, or 12 to 15 pounds to an acre. If sown in warm months, seed should be planted two or three times thicker than usual as Spinach germinate very poorly during hot weather. For field culture, plant level in rows 16 to 18 inches apart. This distance permits easy horse cultivation.

Spinach is best adapted to a rich, light loam and is not a satisfactory crop to grow on soils of poor quality or those which will not retain moisture. The climatic requirements of this crop are very exacting. The plants will stand without injury a relatively low degree of temperature, but are seriously injured by heat. Planting late in the spring should be avoided since the plants will not make a satisfactory growth during hot weather. When planted during the rainy season, provided the soil is of a sandy nature and is free from weeds so that it will not pack, the crop may require no cultivation. Spinach does well in some shade and can be grown between trees as well as in the open field. It is ready to harvest in six weeks to two months after planting. The yield per acre varies from three to five tons, with an average production of four tons. (As much as eight tons have been grown.)

MARKET.—On the local market there is a uniform demand throughout the year for home consumption, but during the winter months the shipper requires enormous quantities. The canners contract for large acreages each year.

A & M Special Prickly Winter

Great improvement on the ordinary Prickly Winter. The leaves are of huge size, being thick and broad and the color is a medium green. Our stock has proved especially satisfactory for canning purposes. (Pkt. 5c) (1/4 lb. 25c) (lb. 75c) (5 lbs. \$3.50) postpaid.

Prickly Seeded Winter This variety thrives best in the coldest weather. Our strain is the highest type possible and the seed we are offering has proven very satisfactory, especially to market gardeners, as it produces wide thick leaves of dark green color. (Pkt. 5c) (1/4 lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

New Zealand A spreading vine with numerous branches. One plant will cover an area four feet in diameter. Prefers a partial shady situation, where plenty of moisture is available. The tender tips may be cut every few days and cooked as spinach; it is just as good. One packet of seed is enough for a family garden. (Pkt. 5c) (oz. 15c) (1/4 lb. 35c) (lb. \$1.00) postpaid.



A & M Special Viroflay

A & M Special Viroflay

Splendid long standing variety, specially grown and selected for a type that is less susceptible to run to seed than other varieties. Produces fine large leaves, very thick and it is altogether a decided advancement in this class of Spinach. (Pkt. 5c) (1/4 lb. 25c) (lb. 75c) (5 lbs. \$3.50) postpaid.

Viroflay This variety has become popular as an all-round Spinach. It is desired by the grower because it is hardier than other varieties and will produce in tonnage per acre more than any of them.

The canner and shipper like it because of its large smooth leaves.

The consumer prefers it because it is exceedingly tender and of mild flavor. (Pkt. 5c) (1/4 lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

A & M Summer Success For several years we have endeavored to secure a type of Spinach that would prove profitable to grow in summer time, and after several trials this one proved the greatest success. With moist, loamy or peat land the A & M Summer Success will grow leaves 14 inches long. The leaves are very meaty and crisp. (Pkt. 5c) (1/4 lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

A & M Salsify

Culture Sow the seed in the spring in drills one foot apart and one inch deep, thinning out plants to four inches. It succeeds best in light, well-enriched soil. One ounce of seed for 56 feet of drill.

Mammoth Sandwich Island A large and superior variety. Mild and delicately flavored. (Pkt. 5c) (oz. 25c) (1/4 lb. 85c) (lb. \$2.50) postpaid.

Tobacco

Acclimated Havana For quality this is the very best. (Pkt. 5c) (oz. 50c)

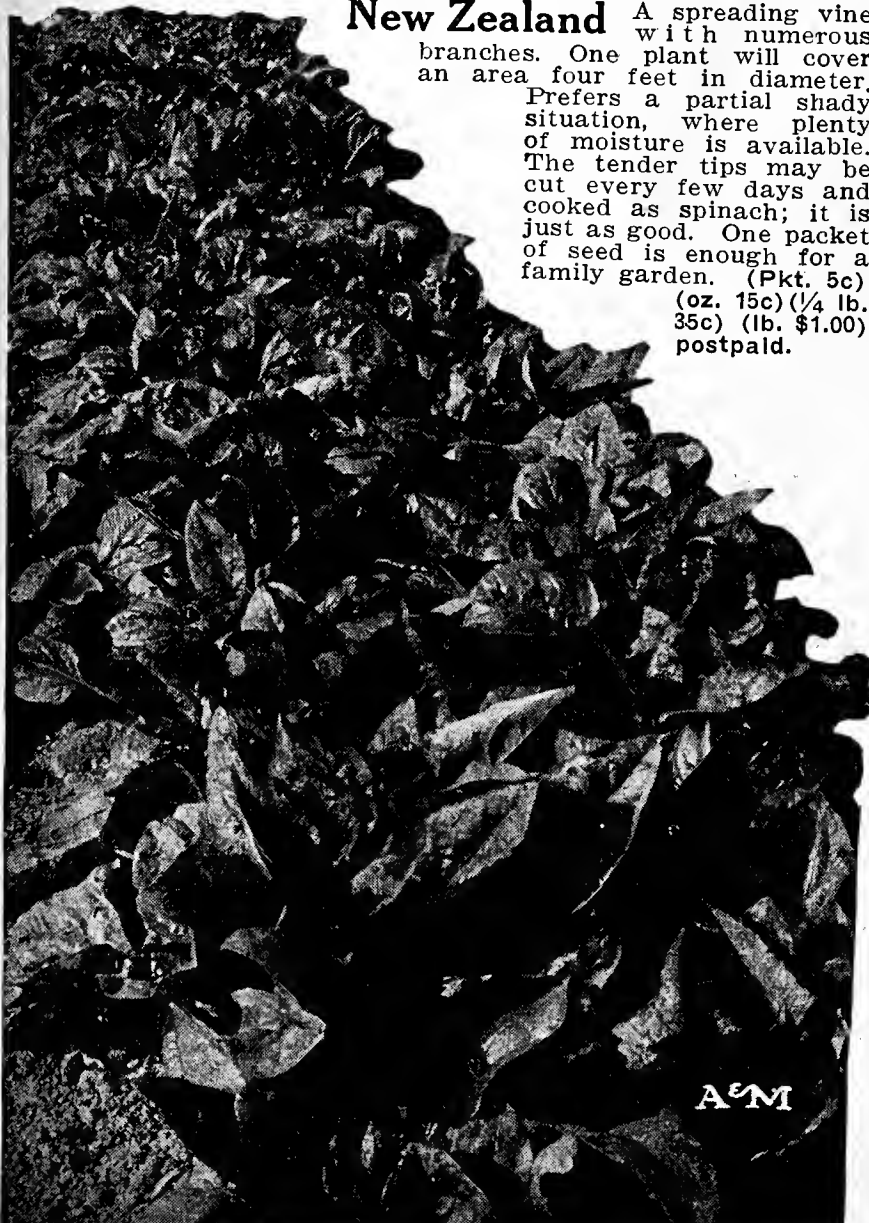
White Burley The best variety to grow in the home garden for use in the chicken house or other insecticide purpose. Also if handled properly makes a good smoking tobacco for the pipe. (Pkt. 5c) (oz. 50c).

MARKET GROWERS—NOTE!

Critical growers throughout the country are using A & M outstanding strains of Vegetable Seeds. Please write for quantity prices.

CUTWORMS

Cutworm injury almost invariably occurs in the spring, plants usually being cut off at the surface or a little below the surface of the ground. This injury begins as soon as the first plants sprout and continues until late in June or early July when the worms have become full grown. Feeding takes place at night, the worms resting during the day beneath debris or in the soil. For best results in controlling this pest distribute Snarol over infested areas, taking care to sprinkle it around each hill. See page 87.

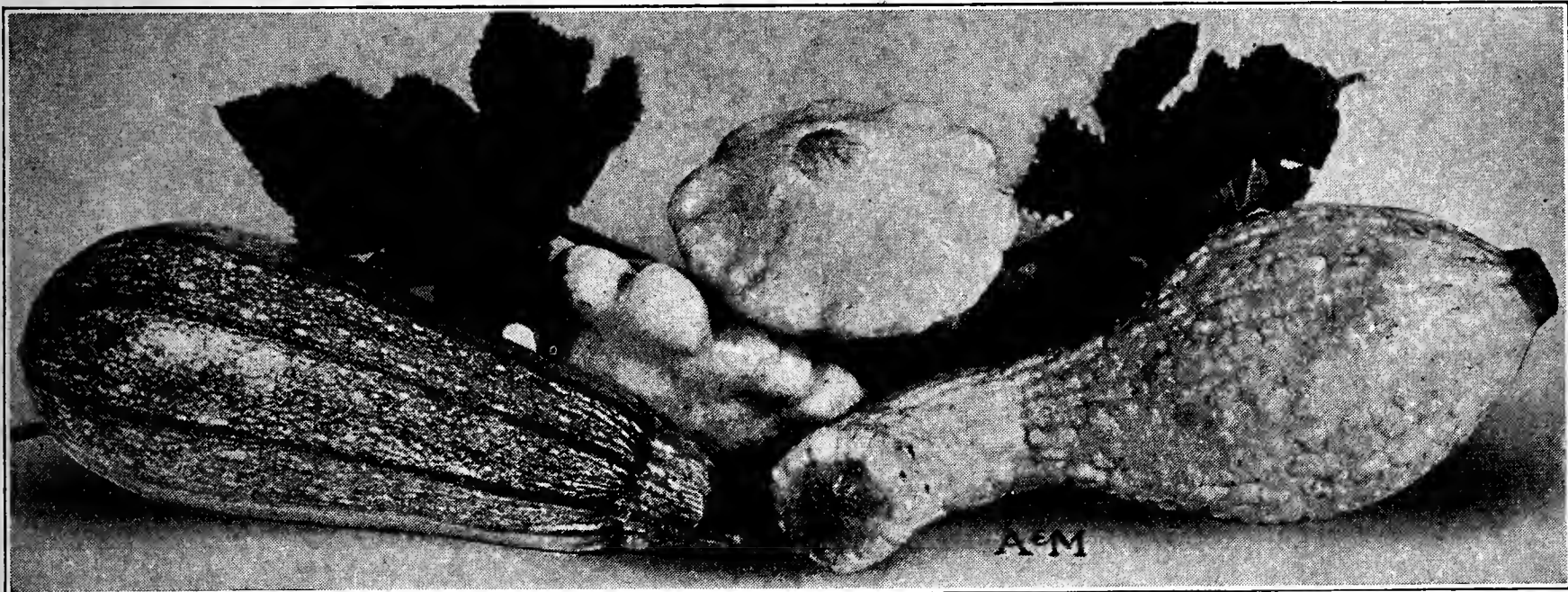


A & M Special Prickly Winter

A & M Squash

Market gardeners write for quantity prices.

Culture Seed should not be planted until all danger of frost is past. In open ground plant in hills 3 feet apart in rows 4 feet apart for summer varieties and 10 feet by 6 feet for winter varieties. In orchard plant only one row between trees. When the vine is well along do not flood the hill, but keep the irrigation furrow nearly as far from the hill as the length of the vine. Keep in mind that the roots are longer than the vines. Very early plantings may be protected with Hot Caps. Two pounds of seed plants an acre for summer varieties and 1½ pounds for winter varieties.



Zucchini

White Bush Scallop

Golden Summer Crookneck

SUMMER VARIETIES

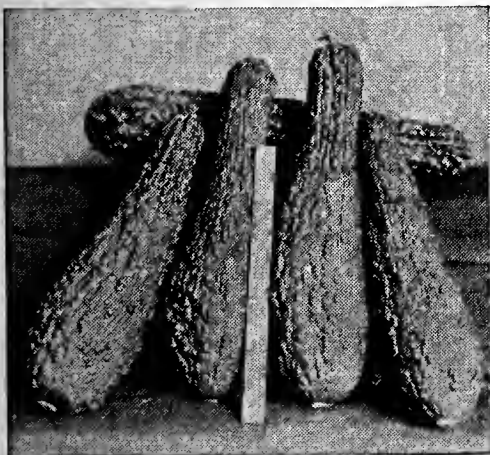
Zucchini or Italian The favorite Italian squash. It should be eaten when quite young, four to six inches long. It is a delicious summer variety; do not hesitate to plant it. It is very prolific, a few hills will suffice to keep the family well supplied the entire summer. It is now more popular on the market than the White Bush Scallop. (Bush.) (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Black Zucchini Similar to the regular Zucchini with the exception of being a very deep green in color. Especially desirable for market growing and shipping purposes. (Bush.) (Pkt. 5c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

A & M White Bush Scallop The well known summer squash that has been the standard for more than fifty years, and always in demand because of its earliness and delicious flavor. (Bush.) (Pkt. 5c) (oz. 15c) (¼ lb. 40c) (lb. \$1.25) (5 lbs. \$5.75) (10 lbs. \$11.00) postpaid.

Improved Green Tint White Bush Scallop

Similar to the well-known White Bush Scallop, but selected for the darker green fruit which holds its color longer and makes it very desirable for market purposes. (Bush.) (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Golden Yellow Straightneck

Golden Yellow Straightneck

Select type of golden summer squash with a straight neck instead of curved. For this reason is more desirable for packing in boxes for shipping. (Bush.) (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Golden Summer Crookneck The popular well known Crookneck. (Bush.) (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Cocozelle Differs from Zucchini in that it is marked with heavy dark green stripe. It is enormously prolific. When gathered closely the vines will keep bearing continuously all summer, and far into the fall. It survives drouth to a wonderful degree. (Bush.) (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Long White Marrow This is exceedingly delicious as well as the most prolific of all English Marrows. Steamed when quite young or fried as egg plant it is equal to egg plant itself. The squash is about 12 inches long when mature, and has a light creamy color. (Trailing.) (Pkt. 5c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

WINTER VARIETIES

A & M Banana This squash grows from one to two feet in length. Flesh firm and solid of beautiful orange-yellow and excellent quality. Banana seems to succeed where others fail. It keeps from one season to another. When quite young it is excellent to cook as a marrow. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$7.00) (10 lbs. \$13.00) postpaid.

Green Wartyed Hubbard This variety is used in many ways, but mostly for pies. It is a good keeper and because of its hard warty rind, it is the best of shippers. Therefore many acres are grown in Southern California for that purpose, and many more for bakers, canners and family consumption. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$7.00) (10 lbs. \$13.00) postpaid.

Golden Hubbard The flesh is of a deep golden yellow—a much richer color than the Green Hubbard—fine grained, cooks very dry, and has excellent flavor. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Table Queen A small squash growing about 7 inches long and 4 to 5 inches thick. The color is deep green with the under portion an orange red where it rests on the ground. Very sweet and fine grained and suited for home garden or market. An excellent keeper for winter use. Cut in two when baked, each half is sufficient to serve one person. (Pkt. 5c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

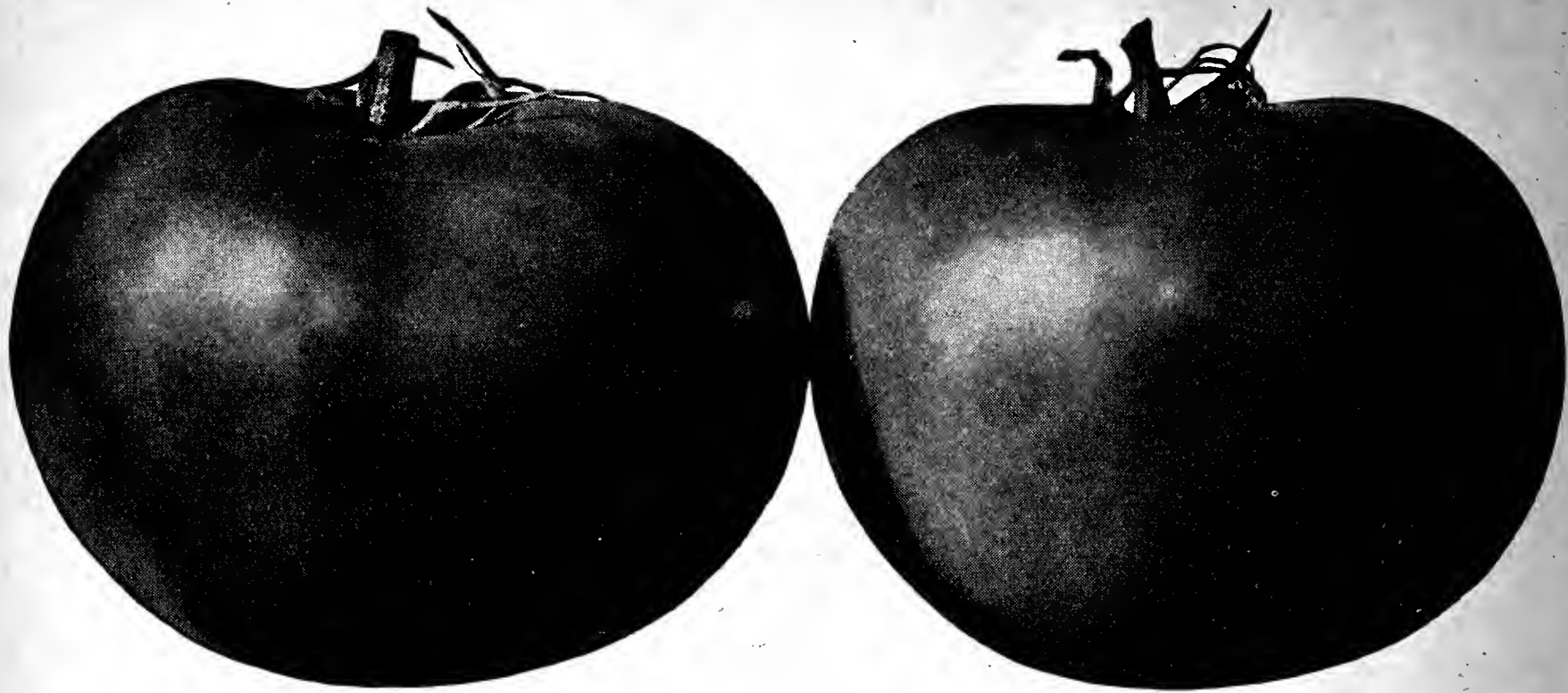
English Cream Marrow or Fordhook Squash

This is a most desirable squash for either summer or winter use. Oblong in form, 8 or 10 inches in length. If gathered young for cooking it is excellent, while if allowed to ripen on vine they can be stored and will keep in good condition until late the following June. (Trailing.) (Pkt. 5c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.



Table Queen

A & M Tomatoes



Jack O' Harts

Culture Tomatoes can be grown on almost any of our California soils and are more affected by climatic conditions than by soils. Success depends upon securing a rapid, vigorous and unchecked growth during the early part of the season. Sow in hot-beds from 6 to 8 weeks before they can be set out in the field, which is when danger from frost is past. Use two ounces of seed per acre.

Transplant three to six feet apart in rows four to six feet apart, according to variety—three feet for those varieties of upright growth, and six feet is not too far apart for vining varieties which soon cover the ground solidly. The soil should be plowed and pulverized to a depth of ten or twelve inches, the deeper the better, in order that the roots may keep in the cool earth, for as soon as the roots are heated by the hot, dry soil near the surface, the plant quickly sickens and dies, and the grower can see no cause for it.

Many growers are now treating seed with Semesan before sowing. This helps to control diseases and develops sturdier plants.

Root blight may very often be prevented by spraying frequently with Bordeaux Mixture, beginning when the plants are young and continuing throughout the season. A cup full of the liquid Bordo poured around the stem of the plant where it will soak down to the root system is also effective. It is also a good plan to dip the roots in a solution of Bordeaux Mixture when transplanting. Blight may often be prevented, but it is difficult to cure.

The time of planting and variety depend upon your local market, soil and climatic conditions, and the purpose for which they are grown.

JACK O' HARTS

The Sensational All-Purpose Tomato

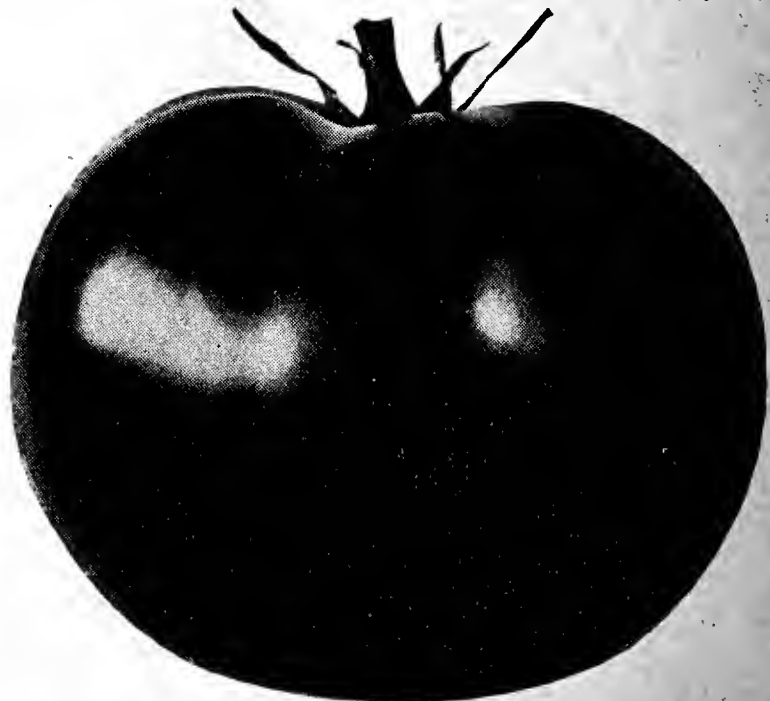
A great wilt-proof variety producing rich dark crimson tomatoes very uniform in size, the average weight being about 12 ounces. It holds its good size throughout the growing season even after several pickings. The flesh is very solid and individual fruits weigh one-eighth more than Stone of the same dimensions; furthermore the skin is very firm making it a good shipper. It contains little or no acid and can be classified as a sweet tomato; is also a shy seeder. It matures a little before Stone and is therefore considered a late sort. One farmer reports a yield of over 30 tons per acre and it has proven to be a great success throughout the Southland as a green shipping variety. In fact a great majority of tomatoes shipped East the past season were Jack O' Harts. So far the demand has been greater than the supply and it will be found a great profit-maker to the grower and shipper. Jack O' Harts has also proved a fine Tomato for greenhouse work. For this purpose the vines should be trimmed and the plants grown high. (116 days.) (Pkt. 10c) (oz. \$1.00) (¼ lb. \$3.00) (lb. \$10.00) postpaid.

A & M MARGLOBE

A wonderful variety thoroughly recommended for any soil or climatic conditions adaptable to tomato growing. It is a hybrid from Marvel, a government strain; the flesh is red and the very thin outer skin is golden. The red flesh showing through the golden skin produces a rich red color with a tinge of gold showing through. The meat is solid with very few seeds, non-acid, almost a globe shape, size is medium, averaging 7 to 9 ounces in weight, wilt resistant, excellent for local market, and a good shipper. Many carloads are shipped to Eastern markets each fall. (114 days.) (Pkt. 5c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00) postpaid.

A & M FIRST EARLY

We introduced this tomato in 1909 and from that time to the present it has superseded many early varieties throughout Southern California and Mexico and is constantly gaining favor among the important tomato growers in big producing sections, such as Imperial Valley, Coachella Valley, Salt River Valley of Arizona and other similar districts. As an early variety and money maker it has no equal among tomato varieties. It is uniform in size and packs well, making it a most desirable tomato for the packer and shipper. It is smooth, inclined to globe shape, of good size, an excellent shipper and bears longer than any other early tomato. We cannot recommend it too highly. (94 days.) (Pkt. 5c) (oz. 50c) (¼ lb. \$1.75) (lb. \$5.00) postpaid.



A & M Marglobe

A & M Tomatoes—Continued

A & M Second Early An early globe-shaped tomato, deep crimson in color, very smooth and uniform in size. It will be found superior to most varieties for dry farming as the crop can be grown to maturity without irrigation. In an average season it ripens only one week later than A & M First Early. This tomato is recommended for earliness and hardness, and is an excellent shipper. It is very attractive in appearance. (98 days.) (Pkt. 10c) (oz. \$1.00) (¼ lb. \$3.00) (lb. \$10.00) postpaid.

Break O' Day A medium early, scarlet fruited, deep round variety resembling Marglobe. It is as large and firm as Marglobe, is equally disease resistant, and is fully ten days earlier. It ripens evenly and has a very smooth skin without blemish of growth cracks and cat faces. It has become very popular with the Mexican trade. (100 days.) (Pkt. 5c) (oz. 80c) (¼ lb. \$2.50) (lb. \$8.00) postpaid.

A & M Wilt Resistant Stone This tomato has proven less susceptible to damage by wilt than other varieties. It has been grown in fields, adjoining which were tomatoes that were badly infested with wilt that made no crop and were finally plowed under, while the A & M WILT RESISTANT grew an excellent crop and was a money maker. The tomato is of good size, very solid, makes an excellent shipper and is ideal for canning purposes. It has proven its value in Mexico. We can, therefore, recommend it for the canner, the shipper and the market gardener. (116 days.) (Pkt. 5c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00) postpaid.

A & M Globe This has been offered by us for many years and still retains its popularity. It is of globe shape, produces abundantly, is almost without acid and is delightful for the table. It is considered among the best shippers and is excellent for the roadside stand. (112 days.) (Pkt. 5c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

Earliana The plants are quite hardy, with rather slender branches and moderate growth, well set with fruits, nearly all of which ripen very early in the season. The tomatoes are bright red and close together in clusters of five to eight; all of medium size, averaging 2½ inches in diameter. (94 days.) (Pkt. 5c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

King of the Earlies It matures very early, is smooth, is of fair size, is of good flavor and is a good shipper. (96 days.) (Pkt. 5c) (oz. 50c) (¼ lb. \$1.75) (lb. \$5.00) postpaid.

Ponderosa A very large, purple tomato with few seeds and of excellent flavor. Our strain is round and smooth—not the usual oblong wrinkled kind. Favorite for the home garden. (118 days.) (Pkt. 5c) (oz. 70c) (¼ lb. \$2.35) (lb. \$7.00) postpaid.



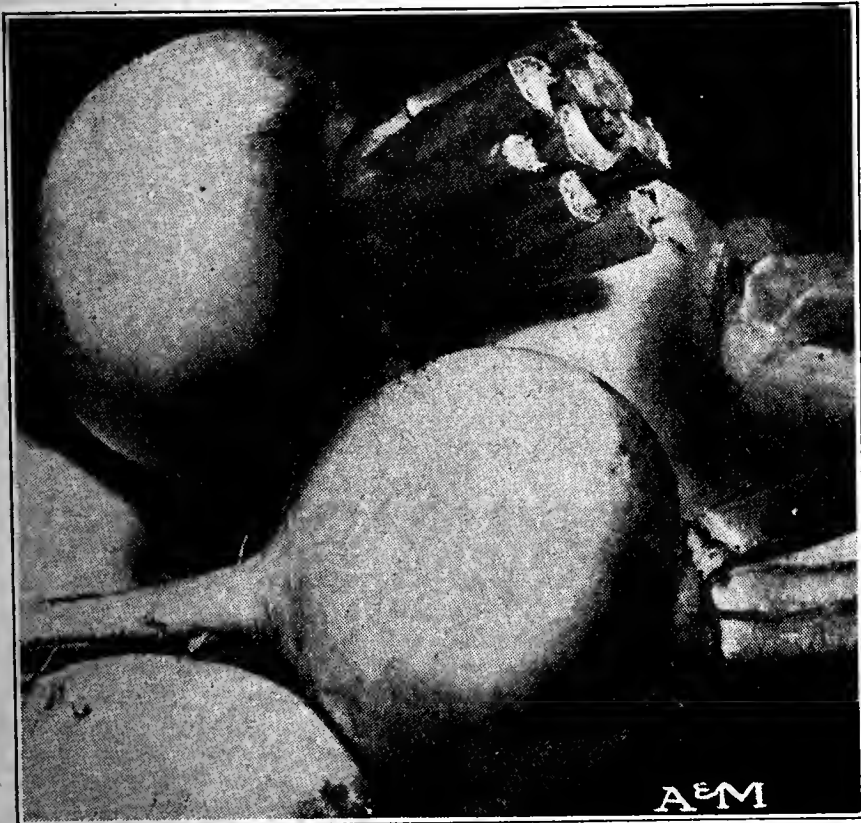
A & M Second Early

Golden Ponderosa A very large yellow tomato having a delicious flavor. It is ideal for salads and with a little finely sliced lemon makes excellent preserves. It yields enormously. We recommend it for the home garden. (112 days.) (Pkt. 5c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

Improved San Jose Canner This variety is much improved in shape and smoothness over the old San Jose Canner and is used by some of the largest growers. It is a large, solid tomato, making an enormous yield and is excellent for the cannery trade. (120 days.) (Pkt. 5c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

Dwarf Stone (Tree Tomato)—Large, red, smooth and solid. The stalk is upright with dense foliage protecting the fruit from the heat of the sun. It is a desirable tomato to grow in the interior valleys. (132 days.) (Pkt. 5c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

A & M Turnips



Purple Top Globe

Culture—Turnips may be sown broadcast on damp sandy soil or in drills as beets and carrots. Drill in double rows on ridges not too thick in the row. The Purple Top Globe variety is now leading in popularity because of its mild flavor and its adaptability to our summer climate.

Purple Top Globe Solid, very sweet, slow to get pithy. The very best variety for the summer season. Indeed the best for any season, but slower to mature than the Strap-Leaf. (Pkt. 5c) (oz. 15c) (¼ lb. 35c) (lb. 80c) postpaid.

Snowball Next to the Purple-Top Globe in popularity, but preferred by many because of its beauty and excellent flavor. It is slow to get pithy in the summer, but always crisp during the winter. (Pkt. 5c) (oz. 15c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Early Purple Top Strap-Leaf A very popular variety for either family or market use; large size, white, purple above ground; table variety. (Pkt. 5c) (oz. 15c) (¼ lb. 30c) (lb. 75c) postpaid.

Golden Ball A rapid grower of excellent flavor; bright yellow color; good keeper and a superior table variety. (Pkt. 5c) (oz. 15c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Early White Flat Dutch An early white-fleshed strap-leaved variety; for quick growth, mild flavor and excellent quality. (Pkt. 5c) (oz. 15c) (¼ lb. 30c) (lb. 75c) postpaid.

Purple-Top Rutabaga The best of the Swede Turnips. Very hardy and productive; flesh yellow, is very solid, sweet and well flavored. Used extensively for the home garden and market garden purposes. (Pkt. 5c) (oz. 15c) (¼ lb. 30c) (lb. 75c) postpaid.

A & M LAWN SEEDS

For Private Lawns, Country Clubs, Golf Links and Public Parks.

The lawn is the finishing touch of the home and once planted it remains indefinitely, therefore, it is important that the proper selection of seed be made in the beginning and thus avoid disappointment. Pure seed of good germination is important and freedom from weed seed is necessary for best results. A & M lawn seeds and mixtures are cleaned thoroughly and are tested for purity and germination. When you plant A & M Lawn Grass Seed you are planting the best that the market affords. Write for Lawn Circular No. 18.



A & M VELVET LAWN GRASS

Has been used for many years throughout the Southwest with highly satisfactory results. It is a blending of grasses best suited to the variation of temperatures to which the lawn is subjected during the twelve months period. It contains the proper proportion of the best, fine bladed grasses and white clover and when properly planted and cared for will produce a beautiful turf of bright, velvety green color. If you are having your lawn planted by a landscape gardener, insist that he use A & M VELVET LAWN GRASS. It is packed in 1 lb. cartons and in specially branded bags of 5 and 10 lbs. each. It requires 1 lb. of A & M Velvet Lawn Grass Seed to plant a space 10x20 or 200 square feet. This is the least that should be used and a heavier seeding will give quicker results. (1-lb. carton 60c) (5-lb. bag \$2.85) (10-lb. bag \$5.40) postpaid.

A & M SHADY LAWN GRASS

In planting the lawn, there are often many places under trees or on the north side of the house and it is quite difficult to obtain satisfactory growth of grass in these shaded places. A & M SHADY LAWN GRASS will grow satisfactory in the shade and will blend in with the other lawn grass. It is a special mixture of fine bladed grasses and will produce an abundant and even growth of beautiful green grass. A & M Shady Lawn Grass may also be used in parks or other places where there is considerable shade from trees. (1 lb. 55c) (5 lbs. \$2.50) (10 lbs. \$4.75) postpaid.

A & M KENTUCKY BLUE GRASS

Every bag of our Kentucky Blue Grass Seed is tested for purity and germination. There is positively no guess work about it. You know when you buy A & M KENTUCKY BLUE GRASS SEED that it is high grade in every respect. (1 lb. 35c) (10 lbs. \$3.25) postpaid. Write for quantity prices.

A & M WHITE CLOVER

There are many grades of White Clover Seed and A & M is always the best one. We invite comparison of samples, for when they are examined side by side it is very easy to note the difference in quality. A & M White Clover is tested for purity and germination the same as our Kentucky Blue Grass. It may be used to good advantage in reseeding Bermuda Grass Lawns in the fall of the year. (1 lb. 60c) (10 lbs. \$5.50) postpaid. Write for quantity prices.

ASTORIA BENT GRASS

The conditions under which this strain of bent grass seed is grown and produced renders it more favorable to our particular climate than many other varieties. (1 lb. \$1.50) postpaid.

SEASIDE BENT GRASS

This strain of bent grass is the most popular for golf greens and has been used for many years for this purpose on the foremost courses. Write for cultural directions. (1 lb. \$1.50) postpaid.

AUSTRALIAN RYE GRASS—(lb. 30c) (10 lbs. \$2.50) postpaid.

PACEY'S RYE GRASS—(lb. 30c) (10 lbs. \$2.50) postpaid.

RED TOP—(lb. 35c) (10 lbs. \$3.00) postpaid.

POA TRIVIALIS—(lb. 50c) (10 lbs. \$4.50) postpaid.

CHEWINGS FESCUE—(lb. 45c) (10 lbs. \$4.00) postpaid.

BERMUDA—(lb. 40c) (10 lbs. \$3.50) postpaid.

A & M VELVET PLANT FOOD

Used Everywhere With Best Results

Every California gardener should fully realize the necessity for fertilizing. Most growers are inclined to use too small an amount of fertilizer and particularly since it is somewhat difficult to secure barnyard fertilizer, there is too often a tendency to forget the matter entirely. This is a mistake and will often cause disappointment, not only in the lawn, but in the garden as well. A & M VELVET PLANT FOOD will give you very satisfactory results and for the new lawn it should be used at the rate of about 100 lbs. to 1,500 square feet and should be raked in before planting. This should be done several days in advance of seeding. For an established lawn broadcast evenly at the rate of 4 to 6 lbs. per 100 sq. ft. and water thoroughly immediately after applying. For roses, use about ½ to 1 lb. per bush, depending upon the size of the bush; for trees and shrubs use a larger quantity. It will be found beneficial to all plant life and the results are quick and lasting. It is odorless and well balanced for general purposes. (25 lb. sack \$1.15) (50 lbs. \$2.00) (100 lbs. \$3.50). F. O. B. Los Angeles.

Classification of Flower Seeds for Special Purposes

This page is intended to aid you in the selection of your seeds that you may have flowers all the year round, and for every purpose.

FLOWERING ANNUALS, ALSO SOME PERENNIALS WHICH FLOWER FIRST SEASON FROM SEED

Varieties Marked * Are Best for Beds and Masses

Abronia	*Chrysanthemum	Ice Plant	*Petunia
Acroclinium	(Annual)	Kochia	*Phlox
*African Daisy	*Cineraria	*Larkspur	*Poppy
*Ageratum	Clarkia	Lavatera	*Portulaca
*Alyssum	Cosmos	Leptosyne	Rhodanthe
*Antirrhinum	Dahlia	*Linum	Rudbeckia
Arctotis	Datura	Lobelia	Salpiglossis
*Asters	*Dianthus	Lupinus	*Salvia
Balsam	*Dimorphotheca	*Marigold	Scabiosa
*Bartonia	*Eschscholtzia	Matricaria	Schizanthus
Bellis	Four O'Clock	Matthiola	*Silene
Brachycome	*Gaillardia	Mignonette	Stevia
Cacalia	*Godetia	Mimulus	*Stocks
*Calendula	Gomphrena	Mirabilis	Sunflower
*Calliopsis	Gypsophila	Myosotis	Sweet Peas
*Candytuft	Helianthus	*Nasturtium	Venidium
Carnation	Heliachrysum	Nemesia	*Verbena
*Celosia	Hollyhock	Nemophila	Vinca Rosea
Centaurea	(Annual)	Nicotiana	*Viola Cornuta
	Hunnemannia	Nigella	Wallflower
		Oenothera	(Annual)
		*Pansy	*Zinnia

FLOWERING PERENNIALS

For Permanent Beds and Borders, Many Flowering the First Season

Achillea	Daisy	Lantana	Ricinus
Agatheia	Dahlia	Lupinus	Salvia
Anchusa	Delphinium	Mimulus	Scabiosa
Aconitum	Dianthus	Myosotis	Shasta Daisy
Aquilegia	Digitalis	Pansy	Statice
Begonia	(Foxglove)	Pentstemon	Stevia
Bellis	For-Get-Me-Not	Perennial Aster	Stocks
Canterbury	Freesia	Petunia	Snapdragon
Bells	Gaillardia	Phlox	Sweet William
Campanula	Gerbera	Physostegia	Valeriana
Canna	Geum	Polemonium	Verbena
Carnation	Gypsophila	Poppy	Vinca
Centaurea	Heliotrope	Primula	Viola
Candidissima	Hollyhock	Pyrethrum	Wallflower
Coreopsis	Hunnemannia		

FOR SHADY PLACES

Anemone	Bellis	Scarlet Flax	Oenothera
Antirrhinum	Daisy	Foxglove	Pansy
Aquilegia	Clarkia	Fuchsia	Primula
Begonia	Cineraria	Godetia	Viola
(Tuberous)	Cyclamen	Mimulus	Violets
	Delphinium	Myosotis	Ferns

FOR CUT FLOWERS

Acroclinium	Calliopsis	Gerbera	Pyrethrum
Antirrhinum	Celosia	Gypsophila	Salpiglossis
Aquilegia	Centaurea	Hunnemannia	Salvia
Asters	Chrysanthemum	Larkspur	Scabiosa
Candytuft	Coreopsis	Leptosyne	Schizanthus
Carnation	Cosmos	Lupinus	Statice
Arctotis	Dahlia	Marigold	Stevia
Bartonia	Daisies	Matricaria	Stocks
Brachycome	Delphinium	Mignonette	Sunflower
Calendula	Dianthus	Pentstemon	Sweet Peas
	Gaillardia	Poppies	Zinnias

ORNAMENTAL AND FOLIAGE PLANTS

Amaranthus	Centaurea	Coleus	Pyrethrum
Canna	Candidissima	Kochia	Ricinus
	Cerastium		Stachys

FRAGRANT FLOWERS

Alyssum	Nicotiana Affinis
Carnation	Stocks
Dianthus	Sweet Peas
Freessias	Sweet William
Heliotrope	Violet
Mathiola	Wallflower
Mignonette	

EVERLASTING FLOWERS

Acroclinium	Helichrysum
Gomphrena	Rhodanthe
(Globe Amaranth)	Statice
Gypsophila	Xeranthemum
Paniculata	

FOR HANGING BASKETS, WINDOW BOXES, etc.

Drooping	Upright
Alyssum	Coleus
Asparagus Sprengeri	Geranium
Kenilworth Ivy	Pansy
Lobelia	Viola
Nasturtium	Begonia
Petunia	Ageratum
Smilax	Primulas
Thunbergia	Candytuft
	Nemesia

FOR EDGING AND BORDERS

Ageratum	Lobelia
Alyssum	Marigold (Dwarf)
Asters (Dwarf)	Myosotis
Begonia	Nasturtium
Bellis	Nemophila
Candytuft	Pansy
Centaurea	Phlox Drummondii
Candidissima	Petuna Nana Erecta
Coleus	Pyrethrum
Dianthus	Golden Feather
Dimorphotheca	Shasta Daisy
Gomphrena	Sweet Peas Cupid
Kochia	Viola
	Zinnia (Dwarf)

CLIMBING VINES

Annual Perennial

Annual	Perennial
Balloon Vine	Ampelopsis
Balsam Apple	Antigonon
Canary Bird Vine	Asparagus
Cardinal Climber	Australian Pea Vine
Convolvulus	Clematis
Cypress Vine	Coboea Scandens
Japanese Hop	Ipomoea
Ipomoea	Lathyrus
Japanese Morning	Moon Vine
Glory	Mina Lobata
Mina Lobata	Phaseolus
Nasturtium	Smilax
Scarlet Runner	Wisteria
Sweet Peas	Cinnamon Vine
Thunbergia	(Bulbs)
Wild Cucumber	

ROCK GARDEN PLANTS—See Page 59

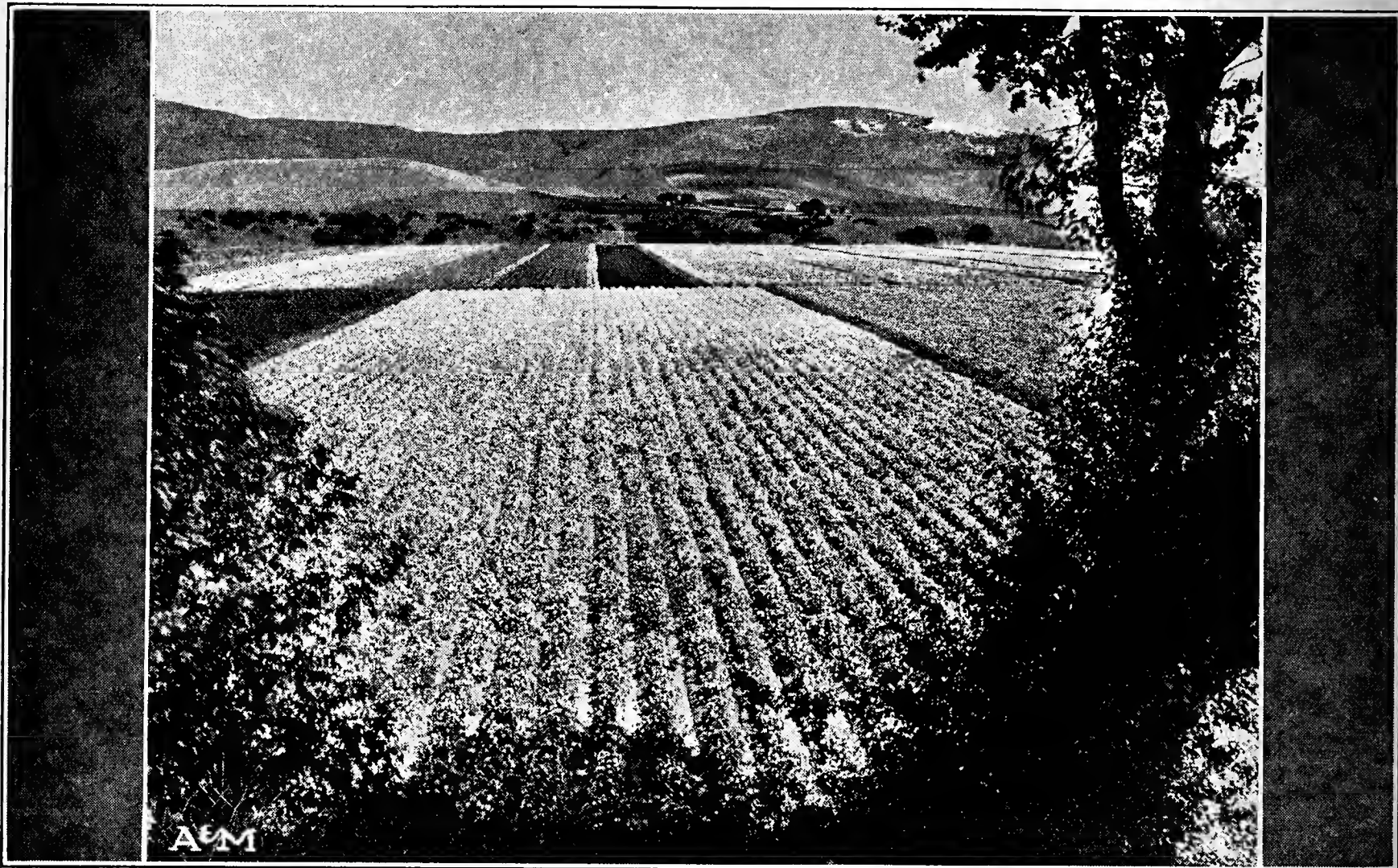
A & M PLANTING CALENDAR—See inside back cover.

A & M Choice Flower Seeds

GENERAL LIST

(See Novelties Listed on Pages 1-5)

A & M Flower Seeds are grown under exceedingly favorable climatic and soil conditions, by specialists. They may be planted in any climate with gratifying results and for the home gardener or commercial grower they are unexcelled.



Field Scene—A & M California Flower Seeds Being Grown Under Ideal Condition

A & M SUPERIOR ASTERS

Here are a few suggestions that may help you to grow better asters. Do not grow them in the same bed a second year. Transplant while they are small. If you have had difficulty with aster wilt, plant the Wilt Resistant varieties, but if they are to be planted in soil that has not grown asters before, you may plant A & M SUPERIOR Aster seeds with reasonable assurance that they will thrive.

We especially recommend A & M PEONY FLOWERED, A & M CALIFORNIA GIANTS and A & M AMERICAN BEAUTY Asters to those who are not familiar with them. These are all long stemmed, non-lateral, large flowered varieties especially suitable for cut flowers.

A & M PEONY FLOWERED ASTERS

Plant this beautiful Peony Flowered Aster for cutting purposes. Large full double, long petaled flowers are borne on long, stout stems. The tendency is for incurving petals, especially in the Peony Flowered Rose which is an excellent cut flower variety.

	Per 1/8 Oz.	Per Pkt.
Azure Fairy—Clear azure blue .....	.45	\$.25
Maiden's Blush—Delicate pink .....	.45	.25
Peach Blossom—Light pink .....	.45	.25
Rose—Lovely rose pink (see page 1).....	.45	.25
Swansdown—Pure white .....	.45	.25
Mixed—All the above colors .....	.45	.25

Collection 10-F—One packet each of the above five named varieties, \$1.00.

SUPER GIANT LOS ANGELES ASTER

New giant species (see page 1 for description).....Pkt. 25c

A & M CALIFORNIA GIANT ASTERS

A new and most worthy Aster for home gardener or florists. The delicately curled and interlaced petals form large fluffy flowers that are most beautiful. They are produced on long, willowy stems with fine foliage, but few or no side branches, which makes it possible to have large flowers without having to disbud. A & M California Giants are one of our best cutting varieties, their long stems making them particularly desirable for the commercial grower or home gardener.

	Per 1/4 Oz.	Per Pkt.
Apple Blossom—Shell pink	\$.65	\$.15
Light Blue—Azure blue .....	.65	.15
Light Purple—Green stem .....	.65	.15
Peach Blossom—Pink .....	.65	.15
Purple—Dark stem .....	.65	.15
Deep Rose—Rich dark rose .....	.65	.15
White—Pure white .....	.65	.15
A & M Mixed .....	.65	.15

Collection 5-F—One packet each of the above seven named varieties, 85c.

New Giant CALIFORNIA SUNSHINE ASTER

New strain (see page 1 for description).....Pkt. 25c

A & M AMERICAN BEAUTY ASTERS

The flowers have in-curved petals and are large and full, often measuring 4 inches across. The plants are of branching habit and the flower stems measure from 15 to 30 inches. The flowers have splendid keeping qualities. We heartily recommend this variety as one which you will be proud to have in your garden.

	Per 1/4 Oz.	Per Pkt.
Azure Fairy—Bright blue.....	\$.65	\$.15
Peach Blossom—Light pink.....	.65	.15
Carmine Rose—Bright rose.....	.65	.15
Crimson—Very large.....	.65	.15
Rose—Florists' shade.....	.65	.15
September Beauty—Pink.....	.65	.15
Purple—Deep purple.....	.65	.15
White Beauty—Pure white.....	.65	.15
A & M Mixed—All colors.....	.55	.15

Collection 2-F—One packet each of the above eight named varieties, \$1.00 postpaid.

AMERICAN BRANCHING

An excellent variety, the plants are 2½ to 3 feet high and have a branching and vigorous growth. The flowers are well formed, being large, double and in-curved.

Lavender.....	Pkt. 10c
Purple.....	Pkt. 10c
Peerless Pink.....	Pkt. 10c
Peach Blossom.....	Pkt. 10c
Sensation Scarlet.....	Pkt. 10c
Deep Rose.....	Pkt. 10c
White.....	Pkt. 10c
Separate Colors.....	1/4 oz. 55c
Mixed.....	Pkt. 10c, 1/4 oz. 50c

Collection No. 3-F — One packet each of the above seven named varieties, 55c postpaid.

QUEEN OF THE MARKET

(Early Flowering)

One of the earliest blooming varieties blossoming frequently in July. Of spreading habit about 18 inches high. Flowers are medium sized and the petals curve outward. One of the most useful types for early market purposes. Mixed. Pkt. 10c, 1/8 oz. 30c.

ROYAL ASTERS

(Early Flowering)

These are dwarf branching Asters about 1½ feet high. The flowers are well formed and very desirable. Royal Mixed, Pkt. 10c, 1/8 oz. 30c.



A & M
American
Beauty

A&M



A & M California
Giant Aster

OSTRICH FEATHERED ASTERS

Extremely graceful Aster, with large, loose, feathery heads, unrivaled for table decoration, flowers double and semi-double. The branching habit makes this a conspicuous border plant. Height 18 inches.

Crimson.....	Pkt. 10c	Light Blue.....	Pkt. 10c
Dark Blue.....	Pkt. 10c	White.....	Pkt. 10c
Shell Pink.....	Pkt. 10c	Rose.....	Pkt. 10c
Mixed.....	Pkt. 10c		

Separate Colors, 1/8 oz. 30c. Mixed, 1/8 oz. 30c.

Collection 4-F—One packet each of the above six named varieties, 45c postpaid.

KING ASTERS

The flowers of this class of Asters are large and double. The petals are quilled, making them distinct from all others and highly desirable. The plants are of upright habit, growing to a height of from 1½ to 2 feet. The stems are long and willowy, making the variety excellent for cutting purposes.

	Per 1/8 Oz.	Per Pkt.
Rose.....	\$.30	\$.10
Peach Blossom.....	.30	.10
Lavender.....	.30	.10
Violet.....	.30	.10
White.....	.30	.10
Mixed.....	.30	.10

Collection No. 1-F — One packet each of the above five named varieties, 40c.

AURORA ASTERS

A dwarf Sunshine type (see description on page 1)....Pkt. 25c

HEART OF FRANCE ASTERS

A beautiful red aster of branching habit and good cutting type. Height 2 feet. Pkt. 15c, 1/8 oz. 35c.

LILLIPUT FLOWERED ASTERS

Bushy plants about 15 inches high bearing masses of blooms. (see page 1). Mixed. Pkt. 20c.

ASTERS—Continued

WILT RESISTANT
ASTERS

Many who have grown asters in their gardens have had the disappointing experience of losing plants after they have grown to a good size. This difficulty is caused from what is known as aster wilt, and aster wilt is thought to be the result of a specific parasitic fungus which may attack the roots at any stage of growth. In an effort to correct this difficulty asters are grown year after year on land known to contain spores of this parasitic fungus. Those plants which survive are considered to be resistant, and tests over a period of years indicate that progress has been made. This seed is offered as wilt resistant, not disease resistant. This strain has been developed at tremendous expense and customers planting the seed will confer a favor by reporting results.

American Beauty—In separate colors of Crimson, Lavender, White, Carmine Rose, Purple. Each Pkt. 20c. Above colors mixed, Pkt. 20c, 1/8 oz. 50c.

Queen of the Market—In separate colors of Crimson, Dark Blue, Scarlet. Each Pkt. 20c. Above colors mixed. Pkt. 20c, 1/8 oz. 50c.

Royal—In separate colors of Azure Blue, Purple, Rose, Peach Blossom, White. Each Pkt. 20c. Above colors mixed, Pkt. 20c, 1/8 oz. 50c.

Ostrich Feather—In separate colors of Crimson, White, Deep Rose, Royal Purple, Pink. Each Pkt. 20c. Above colors mixed, Pkt. 20c, 1/8 oz. 50c.

American Branching—In separate colors of Azure Blue, Deep Rose, Shell Pink, White, Purple. Each Pkt. 20c. Above colors mixed, Pkt. 20c, 1/8 oz. 50c.

Heart of France—Red. Pkt. 20c, 1/8 oz. 50c.

Crego—Cattleya. Beautiful orchid shade (see description on page 1). Pkt. 25c.

ASTER COLLECTION No. 6-F

To encourage you to get acquainted with the several fine varieties of A & M Asters we offer a collection of one packet each A & M Peony Flowered Mixed, A & M California Giant Mixed, A & M American Beauty Mixed and A & M Single Florists' Special Mixed. Four packets for 50c, postpaid.

PERENNIAL ASTER
(Michaelmas Daisy)

Single, hardy perennial plant growing to a height of 3 ft. Blooms in the fall and will flower the first year if sown early in the Spring. Mixed, Pkt. 15c.



Florists' Special Single Mixed Aster

A & M SINGLE ASTERS
(Rainbow Daisies)

You will like these Asters both for garden show and for cut flowers. They produce a fine range of colors in various shades of pink, lavender and blue with a contrasting yellow center disc. Plants are robust and easy to grow.

Florists' Special Single Mixed—Very popular with florists (see page 1 for description). Pkt. 15c, 1/4 oz. 55c.

Choice Single Mixed—An exceptionally hardy strain and provide a wonderful display for home garden. Pkt. 10c, 1/4 oz. 45c.

ABRONIA (Sand Verbena)

A hardy annual, trailing in habit, about nine inches high, bearing verbena-like clusters of flowers, which are very fragrant. A native of California. Thrives in dry situations, and is valuable for rock work or hanging baskets. Umbellata — Rosy lilac. Pkt. 10c, oz. 50c.

ABUTILON

Maximum Giant Flowered Mixed (Flowering Maple) — Perennial. Seeds grow readily if started in February or March and will bloom in fall. Various shades of pink and red. 3 ft. tall. Pkt. 25c.

ACHILLEA

The Pearl — Hardy perennial, producing throughout the summer an abundance of small white flowers. Will bloom first year from early sowings. Excellent cut flower and bouquet filler. Height 2 feet. Pkt. 25c.

ACONITUM

Monk's Hood

Napellus — Hardy perennial, easily grown and producing long spikes of blue and white flowers. May be planted in partial shade. The seed is slow to germinate. Sow in flats in the spring and transplant. Height 3 to 5 feet. Pkt. 15c.

ACROCLINIUM

Hardy annual everlasting flowers, white and self pink with golden centers. Should be cut the first day they open.

Double Rosea—Bright pink. Pkt. 10c.

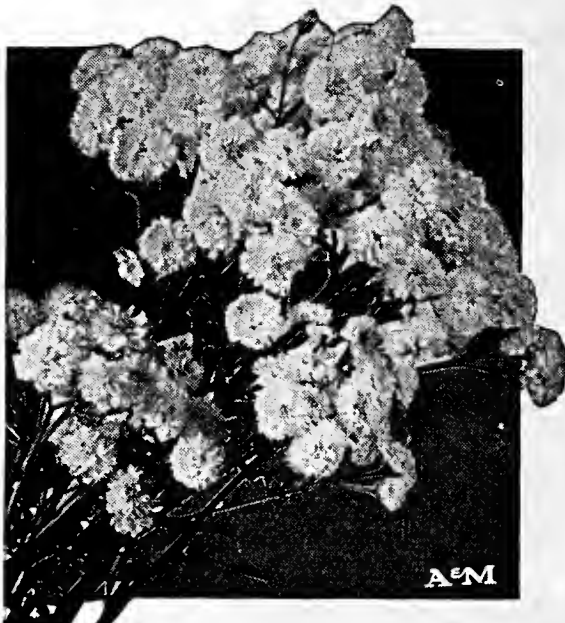
Double Mixed—Pink and white. Pkt. 10c, 1/4 oz. 35c.

ADONIS

Aestivallis (Pheasant Eye)—Annual. 12 inches. Flowers crimson. Slow germinating and should be sown in fall or early spring. Does best in light soil and in full sun or partial shade. Pkt. 10c.

Autumnalis—Annual. Red flowers with dark center. 12-18 inches. Pkt. 10c.

Vernalis — Yellow perennial 12 inches tall. Fine for rock work or borders. Pkt. 10c.



Achillea

AGATHEA

Coelestis—Sometimes referred to as the Blue Marguerite. Plants dwarf and compact, covered throughout a long season with myriads of small Blue Marguerite-like flowers. Pkt. 10c.

AGROSTEMMA

Coeli-rosa (Rose of Heaven) — Beautiful annual of easy culture. Very floriferous—flowers a reddish rose. Thrives in full sun. 12-18 inches tall. Pkt. 10c, 1/4 oz. 25c.

Coronaria (Rose Campion) — Perennial, 2½ feet tall. Produces bright crimson flowers with silvery white foliage. Excellent for cutting. Pkt. 10c, 1/4 oz. 25c.

AGERATUM (Floss Flower)

A hardy annual of easy culture, especially valuable for bedding, as it is literally covered with blossoms all summer. Sow the seed early in the spring, either in boxes to transplant, or out of doors, and thin to four to six inches.

Blue Perfection — Deep blue, one foot high. Pkt. 10c, 1/4 oz. 35c.

Nanum Blue Star—Extra dwarf (4 in.) Many small blue flowers. Fine for edging. Pkt. 15c.

Purple Perfection — Deeper than Blue Perfection. Pkt. 15c, 1/8 oz. 35c.

Blue Ball — Dwarf compact plant with mass of dark blue blooms. Pkt. 15c, 1/8 oz. 35c.

Blue Cap—Very dwarf; deep blue (see description on page 1). Pkt. 20c.

ALONSOA

Linifolia—Graceful plant bearing scarlet flowers. Annual, 1½ feet. Pkt. 10c.
Warscewiczii — Annual; 1-2 feet. Racemes of brilliant tomato red. Pkt. 10c.

ALYSSUM

A fragrant hardy annual having the odor of honey and bearing spikes of small white flowers in great profusion throughout the winter, spring and summer. Without a doubt one of the best border plants; is also useful for beds and baskets and will begin to bloom when quite small.

Carpet of Snow—Very compact, about 3 inches high, one plant often having a diameter of 15 inches. Pkt. 10c, ¼ oz. 25c.

Little Gem—Grows 4 to 6 inches high. One of the finest for low beds and borders. Pkt. 10c, ¼ oz. 25c, oz. 75c, ¼ lb. \$2.40, lb. \$7.50.

Sweet White—The tallest of this group, growing 8 to 12 inches. A profuse bloomer. Pkt. 10c, oz. 25c, 2 oz. 40c, ¼ lb. 65c, lb. \$2.25.

Lilac Queen—A delicate lilac (dwarf). Pkt. 10c, ¼ oz. 25c, ½ oz. 40c, oz. 75c.

Saxatile Yellow—A perennial variety of pleasing yellow color. Height 1 foot. Pkt. 10c, ¼ oz. 25c.

Rock Garden Perennial Mixed—Rare yellow varieties (see page 5 for description). Pkt. 20c.

AMARANTHUS

Hardy annuals, grown especially for their brilliant foliage. **Caudatus (Love Lies Bleeding)**—Light yellowish-green foliage; long, drooping crimson flower spikes. Plants grow 3 feet high. Pkt. 10c, oz. 30c.

Salicifolius or Willow-leaved—This variety is like the above except that the foliage is fine, giving a drooping, graceful effect. Pkt. 10c, ¼ oz. 35c.

Tricolor (Joseph's Coat)—The leaves of this variety are green, red and yellow. Pkt. 10c, ¼ oz. 25c.

Molten Fire—Very attractive, the top leaves being bright crimson and the lower maroon. Pkt. 10c.

AMPELOPSIS

Quinquefolia (Virginia Creeper)—A very popular climber. Hardy perennial. Seed may be sown any time of the year. During the summer the foliage is green, changing to various shades of bronzy red during the fall. Pkt. 10c, oz. 50c.

Veitchi (Boston Ivy)—A valuable perennial climber which grows rapidly, clinging to brick and wood. The leaves are deep green, changing to scarlet in the fall. Pkt. 10c, oz. 50c.

ANAGALLIS

Very desirable annual for edging and rock gardens. 6-12 inches.

Grandiflora Blue—Flowers dark blue with purple center. Pkt. 10c.

Grandiflora Mixed—Very effective in borders and rock gardens. Pkt. 10c.

ANCHUSA ITALICA

Dropmore Variety—One of the best hardy perennials, growing 3 to 5 feet high, and having long loose sprays of lovely forget-me-not-like flowers of a rich gentian blue. Is very free flowering, blooming over a long season. Pkt. 10c.

Blue Bird—Vivid indigo blue. Annual; 2 feet. Pkt. 15c.

Lissadell—Beautiful blue flowers (see page 1 for description). Pkt. 15c.

ANTIGONON LEPTOPUS

Sometimes called Queen's Wreath and Rosa de Montana. A lovely vine bearing quantities of rose pink flowers in wreaths. Blooms in summer and fall. Thrives in hot sunny situations and if cut down by frost will come up again in spring. Pkt. 15c.



Aquilegia, Long Spurred Hybrids



Arctotis Hybrids Mixed

ARCTOTIS

Grandis—Half hardy annual bearing daisy-like flowers. Color pearl white with mauve center. Height 2 ft. Pkt. 10c, ¼ oz. 25c.

Hybrids Mixed—(New). Flowers in many shades of pink, rose, yellow, etc. with a dark disc in the center. A half-hardy annual growing about 1 foot high. Free flowering. Pkt. 10c.

ANEMONE (Windflower)

This lovely flower may be grown from seed as well as bulbs. The seed can be sown in the fall or spring in beds or flats.

St. Brigid—Large flowers, double and semi-double in mixed colors. Pkt. 25c, ⅓ oz. 75c, ¼ oz. \$1.35.

His Excellency—Bright scarlet. Pkt. 25c, ⅓ oz. 85c, ¼ oz. \$1.60.

French Single Coronaria—Large single flowers. Pkt. 15c, ¼ oz. 40c, oz. \$1.25.

ARABIS (Rock Cress)

Alpina—6-12 inches. Hardy perennial requiring sun and poor soil. Excellent rock garden and border plant. Myriads of fine white flowers. Pkt. 10c.

ARMERIA

Formosa Hybrid—Fine plant for permanent border or rock garden and does well on the sea coast. Flowers range from rose to red. Height about 2 feet. Pkt. 10c.

ASCLEPIAS

Tuberosa (Butterfly Weed or Pleurisy Root)—Perennial producing brilliant orange flowers; 2-3 feet high. Pkt. 15c.

ASPARAGUS FERN

Plumosus—A tender perennial for green-house or potted plant use, with long, fine, feathery foliage. The sprays when cut, retain their freshness in water from three to four weeks. Seeds start slowly and should be soaked in water before sowing. Pkt. 10c, 100 seeds 50c.

Sprengeri—A hardy variety. Used as a pot plant. Suitable in groups of potted flowers or in hanging baskets. Pkt. 10c, 100 seeds 45c.

AQUILEGIA (Columbine)

A hardy perennial of graceful habit growing about two feet high. The flowers are attractive and beautifully adapted for cut flowers. They may be successfully grown in partial shade. Fall sown seed will bloom the following spring. If sown in early spring will often flower the same season. Time required for seed to germinate is 12 to 60 days. Sow seeds in flats and transplant.

Long Spurred Blue Shades—(See page 1 for description). Pkt. 20c.

Long Spurred Pink Shades—Containing a variety of pink to rose shades. Pkt. 20c.

Long Spurred Orange and Scarlet Shades—Very striking. Pkt. 20c.

Long Spurred Snow Queen—Pure white (see page 1 for description). Pkt. 20c.

Collection 7-F—One packet each of above, four separate colors, 65c.

Long Spurred Hybrids, Mixed—This is the Elliott strain, conceded to be the finest grown. Colors are mixed, stems extra long, fine for cutting. Pkt. 15c, ⅓ oz. 65c.

Single Mixed—Pkt. 10c. **Double Mixed**—Pkt. 10c.

A & M SNAPDRAGONS (Antirrhinum)

A & M California Snapdragons are the finest strain obtainable. Our fields of these are most beautiful at blooming time and are much admired by all who see them.

Snapdragons are easily grown from seed and may be sown in flats or open ground from August to January in Southern California. They may be had in a great variety of separate colors or the mixed may be planted for a brilliant array of color.

Tall Maximum

Improvement in these favorite flowers that hark to the days of long ago has really been phenomenal. Retaining the merit of their original form, they have received at the hands of the hybridizers a complete glorification. They are now larger, better and more colorful. Height 4 feet. Greatly in demand for cut flowers.

Apple Blossom—Rosy pink, yellow lip	Pkt. 20c
Canary Bird—Canary yellow, golden center	Pkt. 20c
Cattleya—Rosy lilac	Pkt. 20c
Chamois—Pink and tan	Pkt. 20c
Copper King—Copper scarlet	Pkt. 20c
Old Gold—Deep golden yellow	Pkt. 20c
Purple King—Maroon red	Pkt. 20c
Ruby—Velvety ruby red	Pkt. 20c
Salmon Rose—Wonderful bright color	Pkt. 25c
Snowflake—White, yellow tube	Pkt. 20c
The Rose—Rose pink	Pkt. 20c
The above separate colors	1/8 oz. 45c
Finest Mixed	Pkt. 15c, 1/8 oz. 35c
Collection 28-F—One packet each of five separate colors, 75c.	

Tall Large Flowering

This type grows about 3 feet tall, the flowers are large and the flower spikes long. Splendid for cutting and tall borders.

Autumn Glow (New)—Old rose shaded terra cotta; a beautiful color combination	Pkt. 25c
Rose Queen—A delicate silver pink	Pkt. 10c
Brilliant Rose—Deep rose pink	Pkt. 10c
Cardinal—Scarlet	Pkt. 10c
Garnet (Othello)—A velvety, deep red	Pkt. 10c
Defiance Scarlet—A velvety bright red	Pkt. 10c
Golden King—Golden yellow	Pkt. 10c
Orange Shaded Scarlet	Pkt. 10c
White (Queen Victoria)—Pure white	Pkt. 10c
The above separate colors	1/4 oz. 40c
Mixed	Pkt. 10c; 1/4 oz. 25c

Semi-Dwarf Large Flowering

The best for bedding and because of the large flowered compact spike is considered fine for cutting. Height about 18 in.

Carmine Queen—Brilliant carmine	Pkt. 15c
Cheviot Mald (New)—Early rose pink	Pkt. 25c
Defiance—Scarlet	Pkt. 15c
Empress—Deep crimson	Pkt. 15c
Gloria—Deep rose pink	Pkt. 15c
Golden Yellow—Deep yellow	Pkt. 15c
Jennie Schneider—Rose pink	Pkt. 25c
Nelrose—Salmon pink	Pkt. 25c
Philadelphia Pink—Lovely florists' pink	Pkt. 25c
Pink Perfection—Pink suffused salmon	Pkt. 15c
Prima Donna—Terra cotta pink, white tube	Pkt. 15c
Purity—Pure white	Pkt. 15c
White Rock—Finest white	Pkt. 25c
The above separate colors	1/4 oz. 65c
Semi Dwarf Mixed	Pkt. 10c, 1/8 oz. 45c

AUSTRALIAN PEA VINE (Dolichos Lignosus)

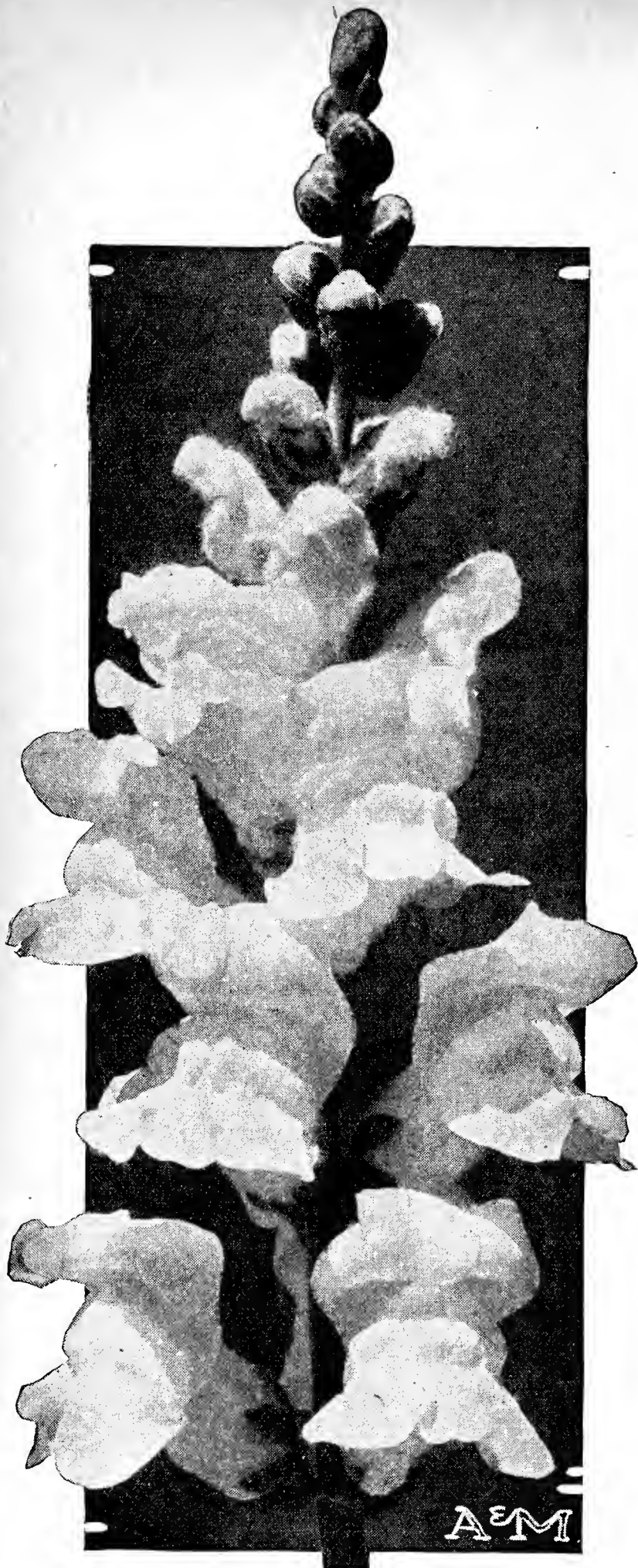
A rapid growing evergreen climbing perennial, flowering freely in large clusters of rose flowers. For covering arbors, trellises, etc., they have no superior. Pkt. 10c, 1/4 oz. 25c.

BALLOON VINE

Climbing annual with small flowers. The seed pods are curiously swelled or puffed and are quite attractive. Pkt. 10c.

BARTONIA AUREA

A showy California annual. Lovely large golden yellow flowers which glisten like satin in the sunshine. The height is about 2 feet, making them very desirable for bedding and cutting. Pkt. 10c.



Tall Maximum Snapdragons

AUBRIETIA

Leichtlinii—Showy trailing perennial for borders or rock gardens. Profuse bloomer; carmine rose colors; 6 inch; part shade. Pkt. 25c.

Bougainvillei—Dark blue. 6 inch. Pkt. 25c.

Large Flowered Hybrids Mixed—An excellent strain producing a wide range of rare colors. 6 inch. Pkt. 25c.

BALSAM (Touch-Me-Not)

A tender annual. Flowers both single and double, in bright colors and variations are wax-like and very attractive. The individual blossoms floating in a dish of water exhibit their beauty to the best advantage.

Improved Double Camelia Flowered—In its extraordinary size, perfect form and brilliant colors, this fine strain of balsam surpasses all others. Height 18 inches. Pkt. 15c.

Spotted—Large semi-double flowers well adapted for borders; fine mixed colors. Pkt. 10c, 1/4 oz. 25c.

BALSAM APPLE

(Momordica)

A climbing annual growing about 15-20 feet long. Has graceful and ornamental foliage, yellow flowers and warted golden yellow fruit, with large carmine red seeds. Thrives in hot locations. Pkt. 10c, oz. 75c.

BRACHYCOME IBERIDIFOLIA

(Swan River Daisy)

A charming annual deserving greater popularity. The plants which grow about 10 inches high, are covered with Cineraria-like blooms in shades of blue and lavender. Mixed—Pkt. 10c, 1/4 oz. 35c.

BEGONIA

Very attractive flower for both pot and bedding use, and should be more extensively grown for shady borders. Perennial.

Tuberous Rooted Single Mixed—Large flowering varieties. Pkt. 50c.

Tuberous Rooted Double Mixed—Select strain. Pkt. 75c.

Tuberous Rooted Single Fringed—Select strain. Pkt. 75c.

Tuberous Rooted Lloydii—For hanging baskets. Pkt. 75c.

Rex—Ornamental Leaved Finest Mixed. Pkt. \$1.25.

Prima Donna—Clear pink shading to carmine rose. Height 1 foot. Pkt. 25c.

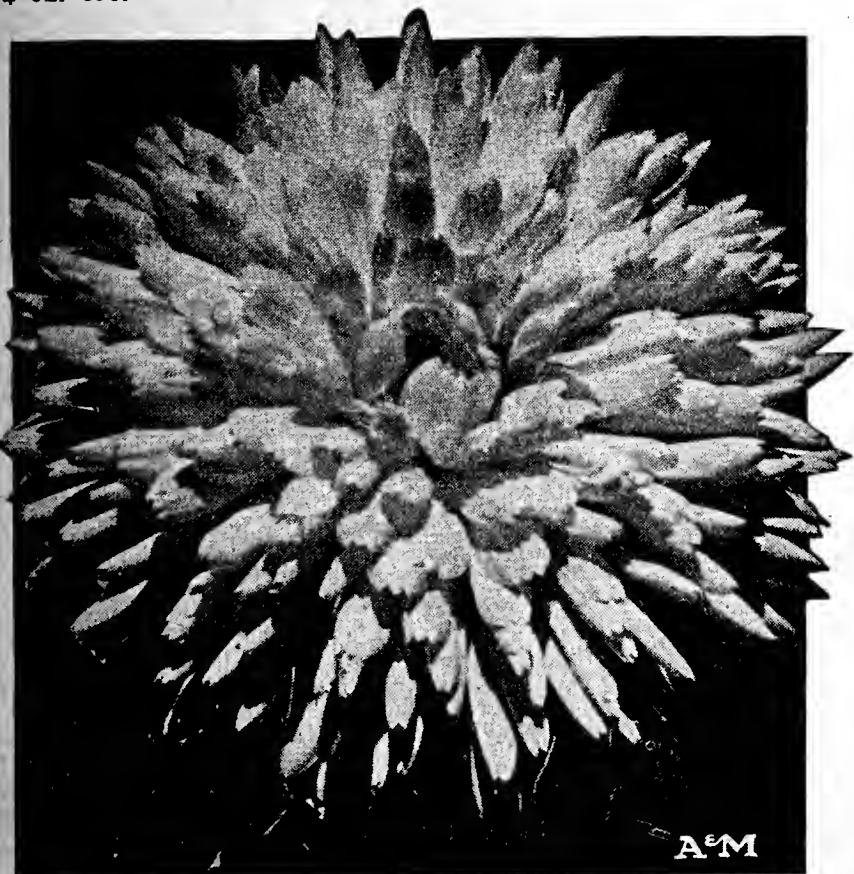
Gracilis Luminosa—Large bright, scarlet flowers. Foliage reddish brown. Pkt. 25c.

BROWALLIA

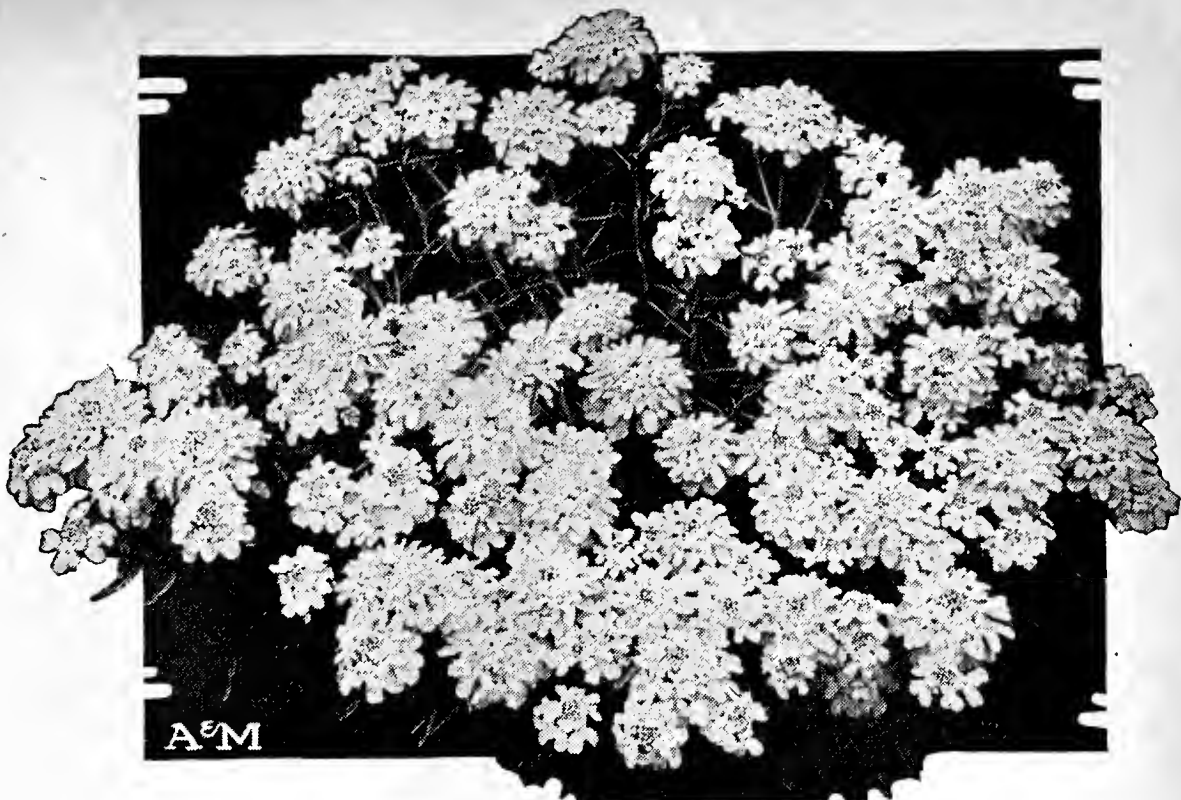
Elate Blue—A rich blue flowering annual which stands considerable cold weather and blooms as well in the winter as in the summer. Seed may be sown any time and it grows equally well in shade or sun. Good rock plant. 18 in. Pkt. 15c.

CACALIA (Tassel Flower)

Coccolnea Red—Sometimes called Flora's Paint Brush. An annual of easy culture growing 18 inches high. Desirable border plant and a beautiful subject for table decoration. Pkt. 10c, 1/4 oz. 35c.



Calendula-Radio



Candytuft Umbellata

CANDYTUFT UMBELLATA

This charming annual should be freely planted in all gardens for display or for cutting purposes. The flowers are borne in umbells and when the plant is in full bloom it is indeed beautiful. Beds or borders of solid colors are most attractive and we suggest solid colors further for the reason that when one color is planted in a row or bed the plants are of uniform height, presenting a most pleasing appearance. Local florists find it a most satisfactory cut flower and it is planted quite freely for that purpose. Seed germinates in 5 to 10 days and it may be started in beds or flats and transplanted when several leaves are formed.

Albida White	Pkt. 10c, 1/8 oz. 25c, 1/2 oz. 65c
Pink	Pkt. 10c, 1/8 oz. 25c, 1/2 oz. 65c
Crimson	Pkt. 10c, 1/8 oz. 25c, 1/2 oz. 65c
Flesh Pink	Pkt. 10c, 1/8 oz. 25c, 1/2 oz. 65c
Lavender	Pkt. 10c, 1/8 oz. 25c, 1/2 oz. 65c
Rose Cardinal	Pkt. 10c, 1/8 oz. 25c, 1/2 oz. 65c
A & M Umbellata Mixed	Pkt. 10c, 1/8 oz. 25c, 1/2 oz. 65c

Collection 8-F—One packet each of above separate colors, 45c.

Umbellata Hybrida Nana—Similar to above except that plants are more dwarf and compact. Excellent for borders. Mixed, Pkt. 15c, 1/2 oz. 40c.

Giant White Hyacinth Flowered—A giant Candytuft bearing immense snowy white spikes, which often measure 10 inches or more. Don't fail to give this a trial. Pkt. 10c, 1/4 oz. 25c, oz. 85c.

Miniature Gem—For rock garden and borders (see page 5 for description). Pkt. 25c.

Perennial Candytuft (Iberis)

Gibraltarica—Plants of dwarf compact habit, growing about 6 inches high. Flowers lilac. Valuable for rock gardens and borders. Pkt. 10c.

A & M CALENDULA

Very hardy annual, one foot high, blooming freely practically the whole year round. It is one of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive. Calendulas make one of our finest winter flowers. A hard frost will not hurt them. In fact, the flowers are larger and finer during the winter and spring months.

Chrysanth—New form (see page 2 for description). Pkt. 25c.

Golden Beam Radio—New (see page 2 for description). Pkt. 25c.

Masterpiece—New (see page 2 for description). Pkt. 25c.

Radio—A distinct and new form of Calendula. The petals are quilled and of a brilliant orange color; very striking. Pkt. 20c, 1/8 oz. 45c.

Camp Fire—The blooms are undoubtedly larger than any other type and are a brilliant orange color with a scarlet sheen. Very vigorous grower. Pkt. 15c, 1/8 oz. 35c.

Ball's Orange—Deep glowing orange. Large double flowers. Pkt. 15c, 1/8 oz. 45c.

Ball's Gold—Deep golden yellow flowers borne on long stems. Pkt. 15c, 1/8 oz. 45c.

Ball's Supreme—Rich light orange with dark brown center. Pkt. 15c, 1/8 oz. 45c.

Orange King—Bears giant flowers sometimes 3 inches in diameter. Color pure orange. Pkt. 10c, 1/8 oz. 25c.

Lemon Queen—Like the above, but of pure lemon. Pkt. 10c, 1/8 oz. 25c.

Double Mixed—A good mixture. Pkt. 10c, 1/4 oz. 25c, oz. 75c.

CALCEOLARIA

Grandiflora Tall Tigered Mixed—The flowers are pocket shaped, beautifully tigered or spotted and are borne in great profusion. For best results the seed should be sown in a greenhouse or frame during winter. Pkt. 50c.

Lignosa—Bunch of Gold — Grows 12 inches high and produces many bunches of beautiful golden yellow flowers through the summer. Useful for bedding. Pkt. 50c.

CALLIOPSIS

These will grow luxuriantly in any situation and are most useful, affording a constant supply of richly marked flowers for cutting. All varieties are annuals. The tall varieties often reach a height of 3 feet. The dwarf varieties make splendid borders and low beds.

Crimson King—A rich deep crimson. Height 8 to 10 inches. Pkt. 10c.

Dwarf Mixed—A splendid mixture of all the attractive varieties of this class. Pkt. 10c, ½ oz. 25c.

Tall Single Mixed—Choice tall single varieties. Pkt. 10c, oz. 30c.

Tall Double Mixed—Double and semi-double flowers. Pkt. 10c, oz. 30c.

CALIFORNIA WINDBREAK

Lavatera Assurgentiflora—This perennial shrub is easily grown from seed, is very drought resistant and makes one of the quickest and best windbreaks known in California. Is used extensively as a windbreak for vegetable gardens and chicken ranches. The first year from seed it will grow to a height of at least 6 feet and flower, the flowers being an attractive shade of red. Sow in flats and set out plants 3 feet apart. Pkt. 10c, oz. 40c, ¼ lb. \$1.25.

CACTUS

Mixed Varieties—Good results may be obtained by propagating cacti from seed. Sow in flats using half sand and half leaf mold and cover seed very lightly. Cover the flat with glass and place in a warm situation. Keep slightly moist. Pkt. 20c.

CANARY BIRD FLOWER

(*Tropaeolum-Canariense*)

A tender, climbing annual of the nasturtium family. Blossoms have curiously winged petals; are light yellow. Pkt. 10c.

CARDINAL CLIMBER

An annual climber of great merit, bearing a mass of small crimson flowers. Height 10 to 15 feet. Pkt. 10c.

CATANANCHE

Coerulea — Pretty deep blue flowering perennial of the Daisy order, growing 2-3 feet high. Very useful for cutting. Pkt. 10c.

CARNATION

Our strain of these popular flowers is unsurpassable in beauty and variety of coloring; also in their delightful fragrance. Seed should be sown in pots or boxes and when 2 to 3 inches high, may be transplanted to the open bed or border, giving shade until the young plants have become established. Sow any time between March and September. Carnations should never be sprinkled for the flowers and buds will be ruined and turn brown.

Enfant de Nice—(New). This is a fine carnation (see description on page 2). Pkt. 25c.

Engelman's Gold Medal—Splendid strain of Perpetual carnations, containing many unusual colors. Large flowers. **Finest Mixed**—Pkt. 20c, 3 Pkts. 50c.

Chabaud's Everblooming Carnations

Sparkler —Bright red	Pkt. 15c	Jeane Dionis —White	Pkt. 15c
Pearl —Silvery light pink	Pkt. 15c	Marie Chabaud —Lt. yellow	Pkt. 15c
Nero —Deep red	Pkt. 15c	Giant —Deep rose	Pkt. 15c
Legion of Honor —Salmon	Pkt. 15c	Chabaud's Fine Mixed	Pkt. 15c

Marguerite, Mixed Colors—This assortment gives a large percentage of fine double flowers. Pkt. 10c, ¼ oz. 50c.

A & M CANTERBURY BELLS

Campanula Medium—A hardy biennial, blooming the second year from seed, or the first if sown early. Grows about three feet high.

Single Blue	Pkt. 10c	Single Rose	Pkt. 10c
Single White	Pkt. 10c	Single Mixed	Pkt. 10c, ½ oz. 25c
		Double Mixed	Pkt. 15c, ½ oz. 45c.

Campanula Pyramidalis—Blue, 5-6 feet tall, blooms late summer. Perennial. Pkt. 15c.

Campanula Longistyla—Flowers blue purple. Height 20 inches. Excellent for rock garden and borders. Perennial. Pkt. 20c.

Campanula Rotundifolia — Blue Bells of Scotland. Slender branching stems with bright blue bell shaped flowers. Does well in the shade. Perennial; 6-12 inches high. Pkt. 15c.

Campanula Carpatia—Bright deep blue flowers 1-1½ inches wide. Can be grown in the shade. Perennial; 9-18 inches high. Pkt. 15c.

Calycanthema—A variety of Canterbury Bells having large semi-double flowers each resembling a cup and saucer.

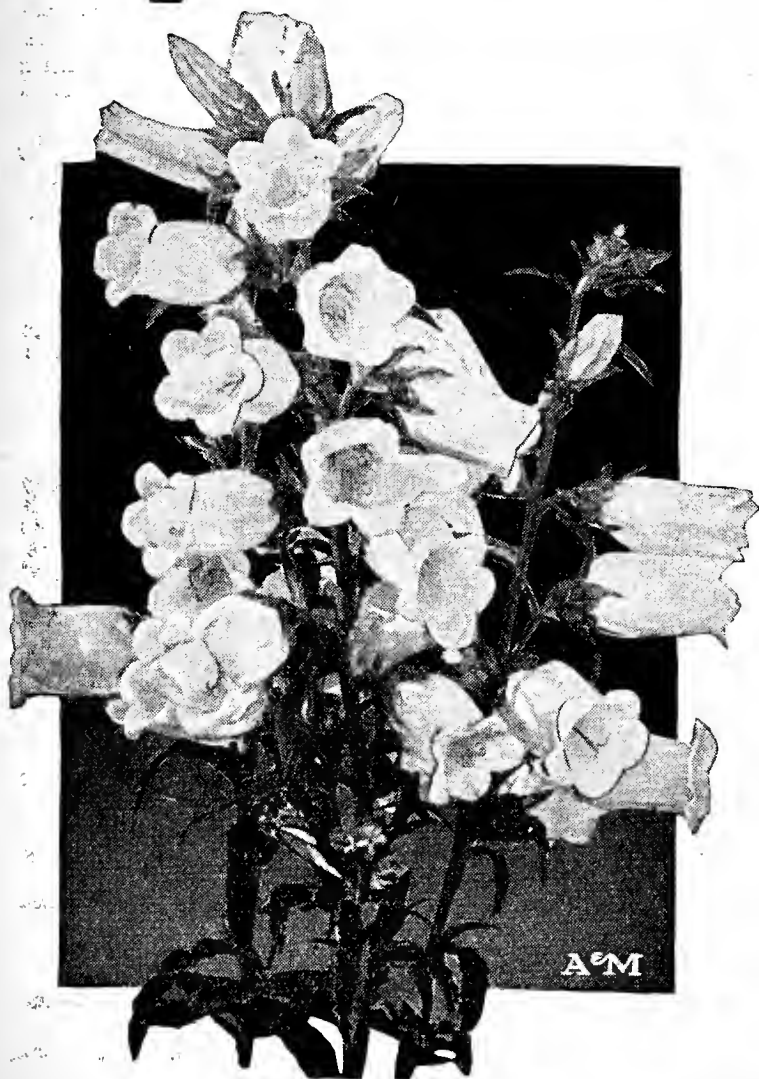
Calycanthema Rose	Pkt. 15c	Calycanthema Purple	Pkt. 15c
Calycanthema White	Pkt. 15c	Calycanthema Mixed	Pkt. 15c

ANNUAL CANTERBURY BELLS—(New). Blooms from seed in less than six months. (See page 2 for description.)

Annual Single Rose	Pkt. 35c
Annual Single Dark Blue	Pkt. 35c
Annual Single Mixed	Pkt. 25c



Engelman's Gold Medal
Carnation



Canterbury Bells—Single

CENTAUREA CYANUS (Corn Flower or Bachelor's Button)

This old fashioned hardy annual is still a great favorite for cutting purposes. The deep rich blue is the most popular. The mixture contains shades of pink, white, lavender and blue. Height 2 to 3 feet.

- Double White—This variety is absolutely pure white and is very double. Pkt. 10c, 1/4 oz. 25c.
Double Blue—A pleasing shade of blue. Pkt. 10c, 1/4 oz. 25c.
Double Pink—Bright pink. Pkt. 10c, 1/4 oz. 25c.
Double Ruby—Unique color in Centaureas. Pkt. 10c, 1/4 oz. 25c.
Double Mixed—Pkt. 10c, 1/4 oz. 20c.

CENTAUREA IMPERIALIS (Royal Sweet Sultan)

This is the variety so popular in the florist's store. The plants are of spreading habit and one plant has been known to keep a home replenished with cut flowers during the entire summer. Height 3 to 4 feet. A hardy annual.

- Amaranth Red Pkt. 10c, 1/4 oz. 30c
Lavender Pkt. 10c, 1/4 oz. 30c
Rose Pkt. 10c, 1/4 oz. 30c
Purple Pkt. 10c, 1/4 oz. 30c
White Pkt. 10c, 1/4 oz. 30c

Collection No. 14-F—One packet each of the above separate colors, 35c.

A & M Mixed Colors—Pkt. 10c, 1/4 oz. 25c.

Suaveolens Yellow—Similar to Imperialis but producing yellow flowers. Pkt. 10c, 1/4 oz. 35c.

CENTAUREA AMERICANA

Beautiful thistle-like flowers 4 inches in diameter. Annual. Height 2 feet. White, Pkt. 10c. Lilac, Pkt. 10c. Each 1/2 oz. 40c.

CELOSIA PLUMOSA (Feathered Cockscomb)

A very decorative plant and useful for mass bedding or for pot culture. The feathered plumes are of medium size and very attractive.

- Plumosa Red—Pkt. 10c, 1/4 oz. 35c.
Plumosa Yellow—Pkt. 10c, 1/4 oz. 35c.
Plumosa Mixed—Many pleasing shades from pale yellow to deepest crimson. Pkt. 10c, 1/4 oz. 35c.

CELOSIA CRISTATA (Cockscomb)

Very ornamental and strong plants, producing magnificent combs of velvety looking flowers. They succeed well in the garden and make very attractive pot plants. Sow seed in the spring only, for they are very tender and will stand no frost.

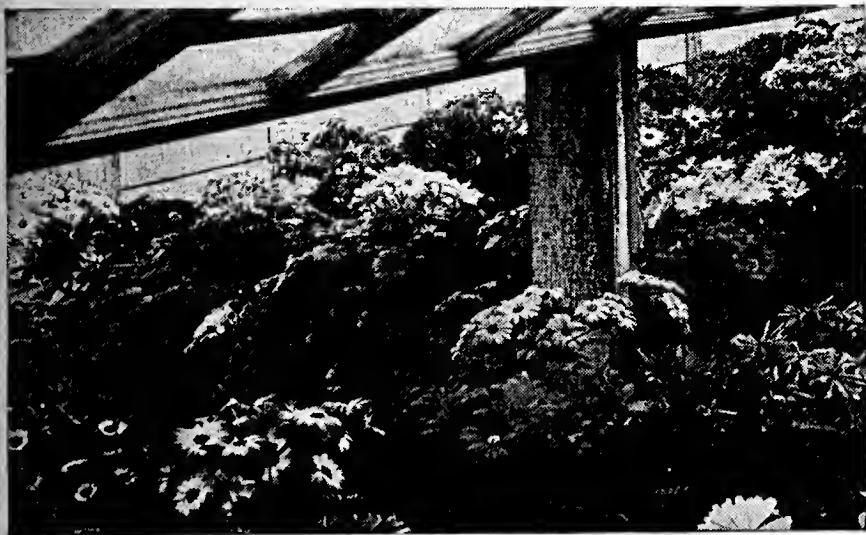
Dwarf Mixed—A mixture of rich velvety colors. Height 10 inches. Pkt. 10c, 1/4 oz. 65c.

Tall Crimson—Brilliant crimson combs borne on stems about 2 feet tall. Pkt. 10c, 1/4 oz. 35c.

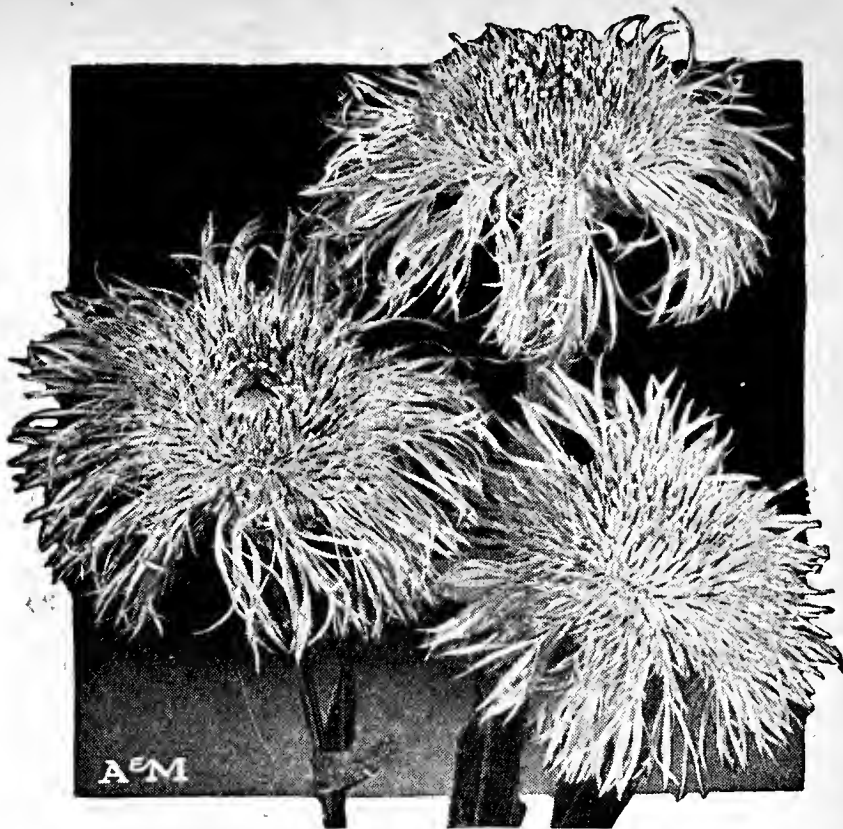
Tall Mixed—Contains shades of crimson and yellow. Height 2 feet. Pkt. 10c, 1/4 oz. 35c.

CELOSIA CHILDSII (Woolflower)

As the name suggests, the flower resembles huge balls of wool. When cut, if it is hung head down until dry, makes a beautiful everlasting flower. Height 15 inches. Mixed, Pkt. 15c, 1/4 oz. 50c.



Cineraria, A & M. Semi Dwarf



Centaurea Americana

CENTAUREA CANDIDISSIMA

True Dusty Miller—Broad silvery white foliage; useful for edging. Height 12 inches. Pkt. 10c.

CENTAUREA GYMNOCARPA

Fine cut silvery foliage with purple flowers. Useful for borders. 1 1/2 feet. Pkt. 10c.

CERASTIUM

Tomentosum — Hardy perennial with pretty narrow white foliage. Makes a very effective silver edging, and is also useful for rockeries. Pkt. 15c.

CLARKIA (Double)

A hardy annual of easy culture, growing about 18 inches high and flowering in great profusion. Native of California. Seed sown in the fall will give early blossoms in the spring. Seed may also be sown in the spring and summer. Will grow in shade or sun.

Firebrand (New) — Brilliant orange scarlet. Pkt. 15c.

Brilliant—Bright pink. Pkt. 10c.

Chamois — Pink suffused with cream. Pkt. 10c.

Salmon Queen—Pkt. 10c.
Mixed—Pkt. 10c, 1/8 oz. 25c.

CHEIRANTHUS

Allioni—Perennial bearing gorgeous orange flowers. Height 12 to 16 inches. Charming in borders and rock gardens (see also page 2). Pkt. 10c, 1/8 oz. 25c.

CINERARIA

Cinerarias require a shaded situation in the garden or they may be grown as pot plants in the greenhouse or lath-house.

A & M Semi Dwarf—This is an extraordinary strain selected for large flowers, uniform height of plants and the most attractive colors. They may be used as pot plants or for bedding purposes and we especially recommend them to those who want the very finest strain. Pkt. 35c.

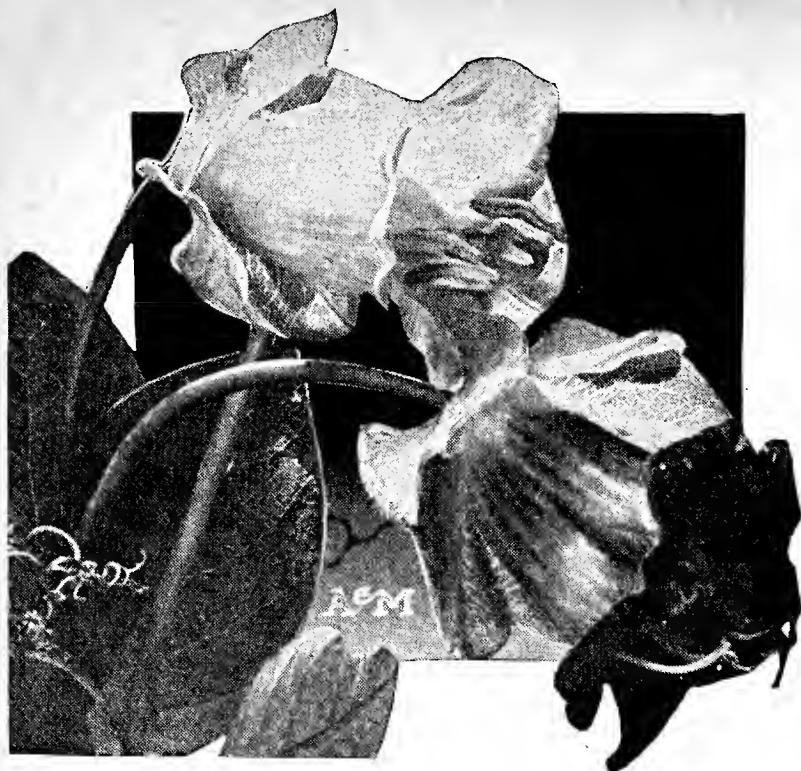
Hybrida Large Flowering Dwarf—A large flowering dwarf strain, having brilliant colored flowers and is especially good for outdoor bedding. Pkt. 20c.

CLEOME (Spider Flower)

Pungens Rose Queen—Very showy annual attaining a height of 4-5 feet producing fantastic flowers of bright rose. Easily grown and good for bees. Pkt. 10c.

CLIANTHUS DAMPIERI

Shrub-like perennial plant producing clusters of bright red flowers with black spots. Pkt. 25c.



Cobaea Scandens

COBAEA SCANDENS (Cup and Saucer Vine)

A perennial climber of rapid growth; very valuable for covering trellises, arbor, trunks of trees, etc. Will cling to any rough surface, often attaining a height of 30 to 40 feet in one season.

Scandens Alba—White flowers. Pkt. 10c.

Scandens Purpura—Purple flowers. Pkt. 10c, 1/2 oz. 35c.

COIX LACHRYMAE ("Job's Tears")

Curious ornamental grass with broad corn-like leaves and seeds of a light slate color. Valuable for winter bouquets with everlasting flowers. Strings of handsome beads are made from the seeds. Hardy annual; three feet high. Pkt. 10c; oz. 30c.

COLEUS

These ornamental foliage plants are very popular for growing in protected borders or for pot culture. They are tender perennials but make a satisfactory growth from seed the first year. A very interesting plant to grow from seed, for many new and fine color combinations are obtained in this way.

Extra Choice Mixed—Pkt. 25c.

Choice Mixed—Pkt. 15c.

Mammoth Pyrenees—Leaves very large and beautifully variegated, plain edged, mostly carmine striped and blotched on green and yellow grounds. Pkt. 35c.

Rainbow Mixed — Giant leaved, with very fine variations of colors. Pkt. 30c.

COSMOS

A garden favorite producing an array of large artistic flowers in pink, white and crimson shades. The Early Flowering varieties may be sown from early spring to late fall and they will bloom within 60 to 75 days after planting.

The late varieties are autumn flowering and should be planted in late spring or during the summer.

Sow seed in the open ground where plants are to remain, or they may be transplanted from seed bed or flats. When plants are about 10 or 12 inches high the tops should be pinched out to make a branching plant.

Early Giant Sow the seeds of these in the early spring to late summer. They are very large flowering and excellent for garden show or for cutting:
PinkPkt. 10c, 1/4 Oz. 25c WhitePkt. 10c, 1/4 Oz. 25c
CrimsonPkt. 10c, 1/4 Oz. 25c MixedPkt. 10c, 1/4 Oz. 20c

Late Giant These are autumn flowering. Sow the seeds during late spring and summer.
PinkPkt. 10c, 1/4 Oz. 20c WhitePkt. 10c, 1/4 Oz. 20c
CrimsonPkt. 10c, 1/4 Oz. 20c MixedPkt. 10c, 1/4 Oz. 20c

Early Crested A very beautiful sort with a decidedly double or crested center. They are admired by all who see them. About 75% of the plants will produce the crested flowers—the remainder will be large single flowers.

Early Crested Pink . . . Pkt. 15c Early Crested White . . Pkt. 15c
Early Crested Crimson Pkt. 15c Early Crested Mixed . . Pkt. 15c

Late Crested The large crested flowers produced abundantly on plants equal in size to the late Giant, present a most striking appearance. Mixed, Pkt. 25c.

Klondike Cosmos A handsome variety for late autumn blooming. Flowers are brilliant orange and very large. The foliage is quite different from other Cosmos, being rather lacy and dense. It requires a long growing season, so must be planted during spring and early summer. Pkt. 15c, 1/8 oz. 30c.

COLLINSIA

Bi-color — Extremely effective hardy annual for spring or autumn sowing. Grows 12 inches high and is excellent for growing in clumps. Flowers lilac and white bi-color. Pkt. 10c.

COREOPSIS

Lanceolata Grandiflora Single—This is a hardy perennial bearing a profuse and long continued succession of large, bold, golden yellow flowers during the spring and summer months. It is a splendid cut flower, the stems are long and the flowers keep well in water. Seed sown in the early spring will flower the same season. Seed may also be sown in the fall. Height 2 1/2 feet. Pkt. 10c, 1/2 oz. 25c.

Improved Double Yellow—The flowers are immense and a great improvement over the old semi-double strain. Pkt. 15c.

Auricula Superba—Petals golden yellow with brownish zone encircling center. Pkt. 25c.

CREPIS

Pretty star-like semi-double flowers of bright rose color. 18 inches high. Annual. Useful for cutting. Pkt. 15c.

CYCLAMEN

A tender, bulbous perennial, used in greenhouses and window gardens. It is easily grown from seed. Sow in the fall or early spring. A & M Choice Mixed. Pkt. 35c.

CYNOGLOSSUM

Amabile (Chinese Forget-me-not)—A biennial 18 in. high, producing beautiful flowers. Much appreciated in dwarf borders, also as cut flowers. Pkt. 10c, 1/2 oz. 25c.

CYPRESS VINE (Ipomoea Quamoclit)

A tender climbing annual with fern-like foliage and small star-like red or white flowers. A beautiful vine for growing in porch boxes, hanging baskets, etc., or for covering trellises. Soak the seed 3 hours before planting. Mixed Pkt. 10c.

DATURA (Trumpet Flower)

Handsome ornamental annuals with large showy flowers. Grows to a height of 3 feet, will flower continuously throughout the summer. Pkt. 10c.

DIGITALIS (Foxglove)

A hardy biennial blooming the second year from seed. Grows usually about 3 1/2 feet, although in very rich soil sometimes 6 feet. The bell shaped flowers are borne on long spikes, and come in shades of purple, lavender, rose and white, all spotted lightly inside the blossom. Thrives best in cool, shady locations.

Gloxiniaflora Mixed—Pkt. 10c, 1/4 oz. 25c.

Giant Shirley Mixed—Pkt. 15c, 1/4 oz. 35c.

Hybrida Lutzii—This variety has been developed to satisfy the demand for light shades in Foxgloves. The predominating colors are in salmon-pink and pale apricot. Height 4 1/2 feet. Pkt. 20c.

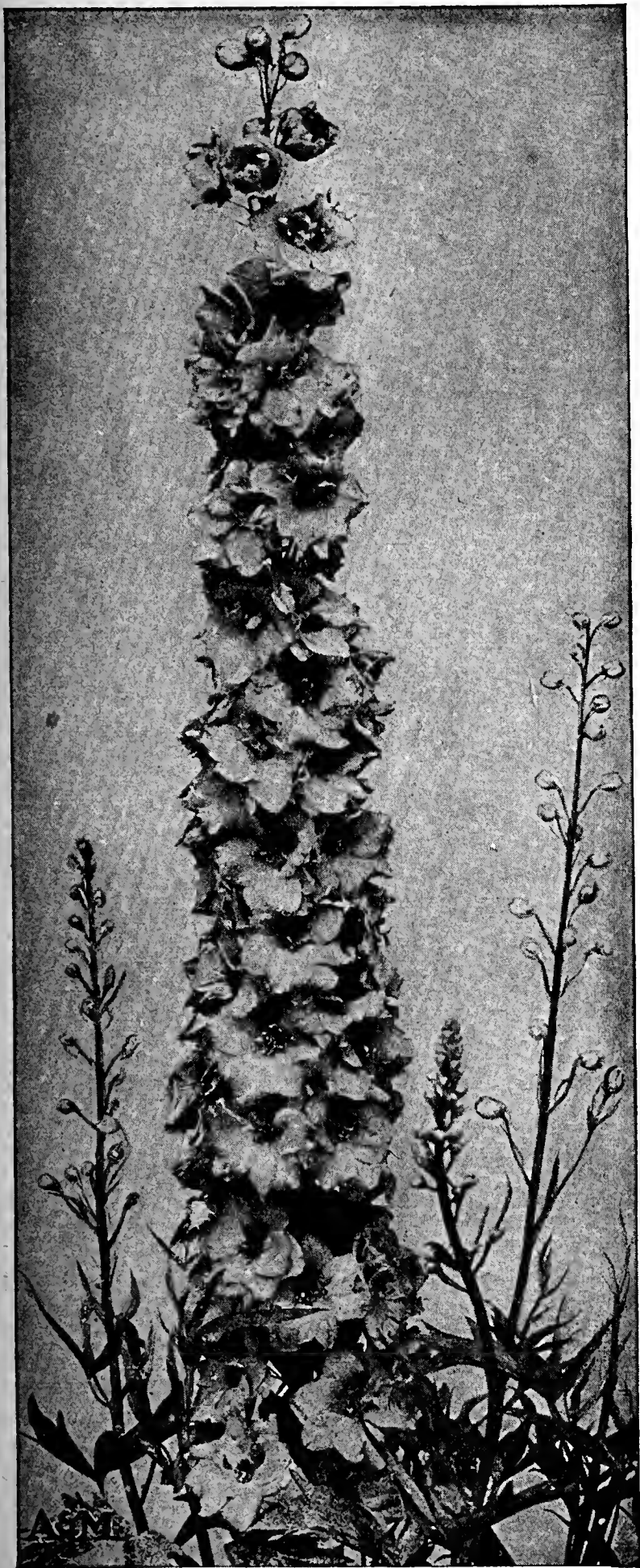


Single Giant Cosmos

A & M DELPHINIUM

(Perennial Larkspur)

One of the finest garden flowers and becoming increasingly popular both for garden show and for cutting. Seeds sown in beds or flats during August, September, October and November will bloom the following spring. Cover the seed lightly and shade the seed bed during August and September. The first transplanting may be made when plants are sufficiently large, spacing them about 6 inches apart. After they have bloomed the first time select the most desirable plants and transplant them to a permanent place in the garden. Spray the plants occasionally with Bordeaux Mixture to prevent Mildew. Seed germinates in about 20 days.



Delphinium, Sunbeam Hybrids

Sunbeam Hybrids

Shades and combinations of clear blue, mauve and purple overlaid with a glistening silvery sheen (see page 3 for description). Pkt. 25c.

Hollyhock Delphinium

A rich assortment of tints delightfully blending light and dark shades (see page 3 for description). Pkt. 20c.

Gold Medal Hybrids

The finest hybrids to be found in Delphinium and all the lovely blues, lavenders and mauves are in this mixture. The plants are vigorous growers, producing tall, handsome spikes. Pkt. 15c, 1/8 oz. 35c.

Cliveden Beauty

A greatly improved light blue variety. It is a strong grower with exquisite large flowers much in demand by the florist trade. Pkt. 20c.

Belladonna

A lovely turquoise blue, which is a continuous bloomer. Splendid for cutting. This is the tall Delphinium so often seen in beds and borders and as cut flowers in the florists shops. Pkt. 15c, 1/8 oz. 35c.

Bellamosa

A rich deep blue in color and of the same type and habit of growth as the Belladonna. The two grow beautifully together. Pkt. 15c, 1/8 oz. 35c.

Cardinale

Scarlet perennial Larkspur. This handsome native flower grows to a height of 4 feet or more and produces its brilliant flowers during the early summer months. Pkt. 15c, 1/8 oz. 50c.

Cambridge Blue

(New.) A clear light blue annual Chinensis type variety (see page 3 for description). Pkt. 20c.

Chinensis Fine Mixed

A very pleasing mixture containing dark blue, light blue and white, that blooms the first year from seed sown in the early spring. Pkt. 10c, 1/4 oz. 30c.

DAHLIA SEED

Culture—Sow seed in flats, covering lightly with sand, screened leafmold or similar material. Place a square of burlap on top of seed bed and keep moist until seed is germinated, removing the burlap as soon as sprouts appear. When plants are 4 or 5 inches high pot them and when well established transplant to the garden. Dahlias from seed will bloom the first season about four weeks later than from tubers.

A & M Prize Mixed—All handpicked from the very finest, large flowering and double varieties. Many wonderful seedlings have resulted from this strain of seed. Per Pkt. \$1.00.

A & M Standard Mixed—Seed selected from choice varieties of Decorative and Cactus types. Pkt. 35c.

Pompon Mixed—The small double dahlia so much prized for cutting. Pkt. 35c.

Coltess Scarlet Gem—Large single bright shades of scarlet (see page 2 for description). Pkt. 35c.

Single Mixed—Seed saved from the choicest varieties. Pkt. 10c.

A & M DOUBLE DAISY

(Bellis Perennials)

A hardy perennial, blossoming freely all spring and summer. Plant is about 4 inches high and is valuable for borders.

Etna—Rich deep red quilled; giant flowered. Pkt. 15c.

Extra Double Red—Pkt. 10c.

Snowball—Pkt. 10c.

Extra Double Pink—Pkt. 10c.

Double Mixed—Pkt. 10c.

SHASTA DAISY

This popular flower is noted for its keeping qualities as a cut flower. They should be planted in the fall or early spring. If planted in late fall will not bloom until the following spring.

Alaska—The finest. Pkt. 10c.

Giant Double Shasta Daisy—(New). The beautiful white double flowers are 5 inches across and are very similar to shaggy petalled asters. They are borne on long stiff stems and are very valuable for cutting. Being a new variety a percentage of single flowers may be expected. Pkt. 25c.

DIDISCUS COERULEUS

(Blue Lace Flower)

This beautiful lace flower is a very attractive cut flower of a lovely blue shade and is most effectively used when mixed in bouquets. The culture is easy and being a hardy annual may be planted from early spring to late summer. If you like to raise your own cut flowers you'll be glad to have this in your collection. Pkt. 10c, 1/8 oz. 25c.

DUSTY MILLER—See *Centaurea Candidissima*

DIANTHUS OR PINKS

Grows about 1 foot high, and bears beautifully colored single and double blossoms in profusion all summer. Sow seed in boxes and transplant, or sow in rows where the plants are to remain, and thin. They are largely used for border, massing in beds and for cutting. There is a wide range of colors from purest white through all shades of pink to deepest red.

Annual

- Chinensis, Double Mixed—Pkt. 10c, $\frac{1}{2}$ oz. 30c.
 Heddewigi, Double Mixed—Pkt. 10c, $\frac{1}{2}$ oz. 45c.
 Heddewigi, Single Mixed—Pkt. 10c, $\frac{1}{2}$ oz. 30c.
 Heddewigi Salmoneus—Salmon shades (see description on page 2). Pkt. 25c.
 Heddewigi Vesuvius—Orange scarlet (see description on page 2). Pkt. 25c.
 Heddewigi Punctatus—Princess Pinks (see description on page 2). Pkt. 35c.
 Heddewigi Nobilis—Royal Pinks (see description on page 2). Pkt. 25c.

Perennial

Plumarius (Grass Pinks)—A hardy perennial pink used for borders and cutting and producing a constant bloom of flowers of varied hues.

- Double Grass Pink, Mixed—Pkt. 10c, $\frac{1}{4}$ oz. 50c.
 Single Grass Pink, Mixed—Pkt. 10c, $\frac{1}{2}$ oz. 30c.
 Plumarius, Highland Rose Hybrids—Single rose with deeper red zone. Very lovely. Pkt. 25c.
 Dianthus Deltoideus—Invaluable plant for rockery, forming masses of small crimson flowers. Hardy perennial. Height 6-8 inches. Pkt. 15c.
 Dianthus Caesius—Another splendid rock plant forming rosy-pink flowers in great profusion. Perennial, very dwarf. Pkt. 15c.
 Rock Garden Mixture—Many varieties of dwarf Dianthus. Very rare (see description on page 5). Pkt. 35c.

DIANTHUS SWEET WIVELSFIELD

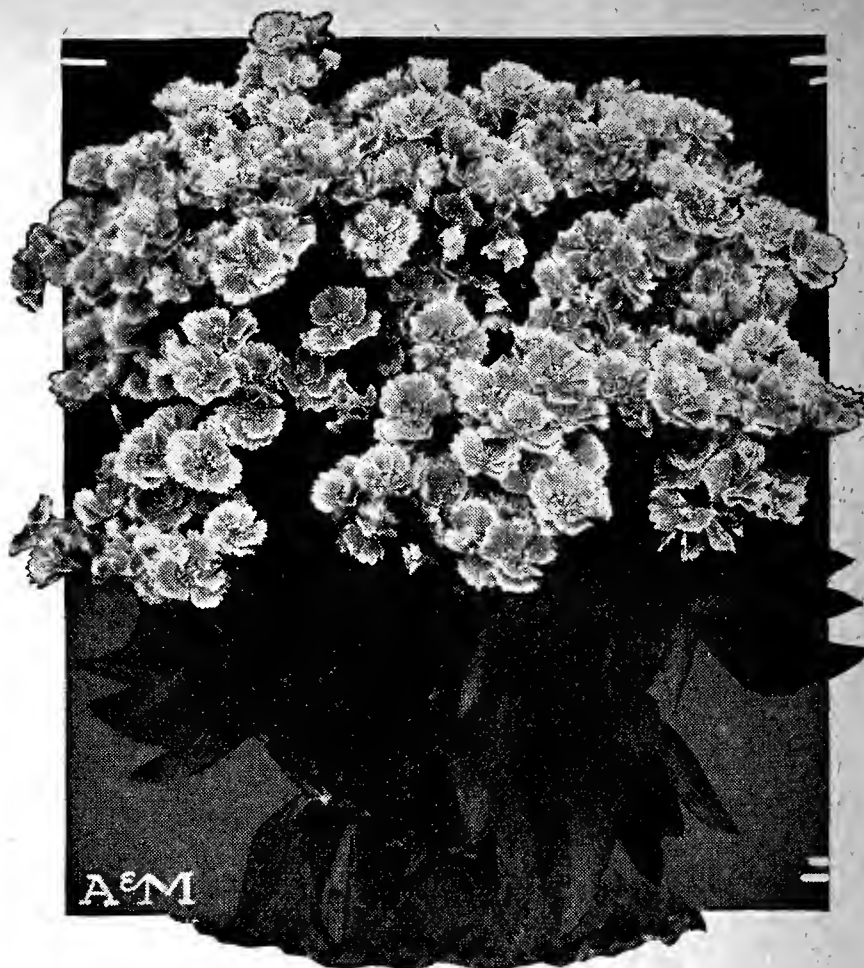
This remarkable new hybrid is quite distinct from the annual Sweet William. It has a great variety of color, and a long blooming season. Magnificent bedding subject. Pkt. 20c.

DIMORPHOTHECA

(The Golden African Daisy)

A showy annual from South Africa which has become a great favorite on account of its easy culture and beautifully colored flowers. The colors include all shades of yellow, orange, cream and white and massed in beds or wide borders they have a very brilliant effect. They may be planted during the fall, spring or summer.

- Aurantiaca—Brilliant orange. Pkt. 10c, $\frac{1}{8}$ oz. 25c.
 Hybrids—Mixed colors. Pkt. 10c, $\frac{1}{8}$ oz. 25c.
 Salmon Beauty—Delightful shade. Pkt. 15c.
 Ecklonis—Perennial bearing beautiful large white flowers with small deep blue disc. Bush-like plant 1-1 $\frac{1}{2}$ ft. Pkt. 15c, $\frac{1}{8}$ oz. 35c.



Dianthus—Sweet Wivelsfield

FORGET-ME-NOT (Myosotis)

A hardy perennial with small blue star-like flowers borne in clusters on long stems. Will bloom the first year if sown early and does best if sown in a box and then transplanted to a cool moist situation.

- Alpestris Tall—Light blue flowers, strong, long stems and vigorous growers make this a popular variety. Pkt. 10c, $\frac{1}{4}$ oz. 35c.
 Blue Bird—Winter flowering, deep blue. May be grown in sun. Pkt. 20c.

FOUR O'CLOCK (Mirabilis)

Also called Marvel of Peru. A hardy annual of easy culture, growing about 2 feet high. The plant is free flowering, bearing blooms of a great variety. Mixed—Pkt. 10c, oz. 25c.

FOXGLOVE—See Digitalis.**FREESIA**

These dainty little popular flowers may be grown from seeds or bulbs. They flower very early in the spring and are one of the most delightfully fragrant flowers in cultivation. Freesias are easily grown from seeds and will bloom the following spring if sown in the fall.

- Purity—White. Pkt. 10c, oz. 55c.
 Improved Rainbow Mixed—Finest pastel shades. Pkt. 15c.

FUCHSIA

Single and Double Mixed—A choice selection of this well-known garden favorite. Does best in semi-shade, and will bloom the first year from seed when sown early. Pkt. 50c.

GAILLARDIA

Beautiful show plant, remarkable for the profusion, size and brilliancy of its flowers, continuing in bloom from early summer till late in the fall. Excellent for beds, borders, or for cutting. Height 18 inches.

Annual Varieties

- Picta Lorenziana Double Mixed—Large heads of bright yellow and red flowers, very double with quilled petals, suitable for bouquets. Should be sown where plants are to remain. Pkt. 15c, $\frac{1}{2}$ oz. 30c.
 Indian Chief—Copper red, a new color which cannot fail to win admiration. Pkt. 15c, $\frac{1}{2}$ oz. 30c.
 Picta Single Mixed—Showy strain producing large flowers of various colors. Pkt. 10c, $\frac{1}{2}$ oz. 25c.

Perennial Varieties

- Tangerine—Compact flowers of various shades of tangerine orange. Very graceful. Pkt. 15c.
 Portola Hybrids—A new variety with flowers 4 inches across. They are very striking in appearance, the petals being of brilliant scarlet, tipped golden yellow. Pkt. 20c.
 The Dazzler—New Giant red Gaillardia with orange tips. Makes an extremely attractive table decoration. Pkt. 20c.
 Grandiflora Single Mixed—Single perennial variety of varying shades of reddish brown and yellow. Pkt. 10c, $\frac{1}{2}$ oz. 25c.



Dimorphotheca Aurantiaca

ERIGERON

Speciosa Hybridus—Mauve blue flowers with yellow centers. Pleasing perennial 1 $\frac{1}{2}$ -2 feet in height. Excellent for cutting and rock gardens. Pkt. 15c.

EUPHORBIA

Variagata (Snow on the Mountain)—Very pretty annual plant with white and green edged foliage. Easy to grow. Height 2 feet. Pkt. 10c.

Heterophylla—(Annual Poinsettia). This annual grows 3 feet high and resembles the Poinsettia. The glossy green leaves turn to a beautiful orange-scarlet in midsummer. Pkt. 15c.

EVERLASTING PEAS—See Lathyrus Latifolius

A & M California Poppy (Eschscholtzia)

One of the finest garden annuals and very easy to grow. Broadcast the seeds during the fall and winter months for early spring flowers. Many new colors have been developing in recent years and these are very attractive in the home garden. Garden clubs or other civic organizations, desiring quantity prices on poppy or wild-flower seeds for large plantings, should ask for special quantity prices.



Ramona
California
Poppy

Double California Poppies

A new and delightful form of poppy. The flowers resemble miniature roses.

Double Salmon Beauty—(New.) You will like this beautiful new poppy. Good form and exquisite color (see description on page 2). Pkt. 20c.

Double Orange—Double form of Aurantiaca. Pkt. 15c.

Double Rose—Very fine. Pkt. 15c.

GERANIUM (Pelargonium)

Zonale Mixed—This well known half hardy perennial will bloom the first year from seed if sown early. Choice strain of the finest sorts. Pkt. 25c.

Pelargonium or Lady Washington—A rich assortment of colors with flowers invariably blotched will be found in this choice selection. Pkt. 25c.

GILIA

Capitata—Graceful annual, growing to a height of about 2 feet and bearing beautiful, globular flowers about 1 inch in diameter. Color a rich lavender blue. Foliage is feathery and very pretty. A native of California, easily grown and very effective for mixing with bouquets. Sow seed in fall, where plants are to remain. Pkt. 10c, oz. 25c.

Tricolor (Birds Eyes)—Dainty annual about 1 foot high. The flowers are lavender, purple spotted with yellow center. Pkt. 10c, oz. 25c.

Coronopifolia (Ipomopsis Elegans)—Tall spikes bearing trumpet flowers 1½ inches long in varied colors of vermillion, salmon, pink and yellow. Fine cut foliage; 6 ft. high. Pkt. 15c.

GLAUCIUM (Horned Poppy)

Brilliant flame colored biennial growing to a height of 4 feet in California. Very showy flowers. Pkt. 25c.

Fluted and Ruffled Varieties

Ramona Hybrids Mixed—This variety stands out as a distinct and very charming type in the frilled class. It is a single but the frills give it the appearance of a semi-double. The color is a glittering coppery gold with pink shadings. Very attractive. Pkt. 25c.

Dainty Queen—(New.) Coral pink with cream background. A lovely color. Pkt. 15c, ¼ oz. 50c.

Dazzler—(New.) A vivid scarlet; large flowers and very attractive. Pkt. 15c, ¼ oz. 50c.

Fireflame—(New.) Orange scarlet flowers. Plant erect and with silvery green foliage. Pkt. 15c, ¼ oz. 50c.

Salmon Beauty—Very beautiful and distinctive color. Pkt. 15c, ¼ oz. 50c.

Orange Flame—Vivid orange-scarlet and most striking of all the new colors. The plants are very erect and compact and would do for borders. Pkt. 10c, ¼ oz. 50c.

Lovely—True to its name this variety is a bright rose pink suffused with salmon. The blooms have a satiny appearance which adds much to their loveliness. Pkt. 15c, ¼ oz. 50c.

Scarlet Beauty—The brightest color of all, being a deep scarlet and as the plants are erect and the flowers large it gives the effect of vivid scarlet tulips. Pkt. 15c, ¼ oz. 50c.

Extra Choice Mixed—Contains the above, also many other of the newer colors. Pkt. 15c, oz. 90c.

Collection No. 17-F—One packet each of the above named eight varieties \$1.00.

Standard California Poppies

Aurantiaca—The true California poppy. Color is deep orange. Pkt. 10c, oz. 30c, ¼ lb. \$1.00, lb. \$3.00.

California Golden West—Yellow with orange center. Pkt. 10c.

California Chrome Queen—Amber yellow. Pkt. 10c.

California Mixed—Pkt. 10c, oz. 25c, ½ lb. \$1.25.



Gerbera, A & M Hybrids

GERBERA (Transvaal Daisy)

Large daisy-like blossoms with flower stems rising to a height of about 2 feet. Colors range from white to crimson, pink, rose, yellow and lilac shades. Flowers both summer and winter. Seed sown under lathhouse conditions in sandy soil where good drainage is provided germinates easily. Pkt. 20c, 3 Pkts. 50c.



Geum

GODETIA

A hardy annual, very valuable for bedding and borders. For mass effects in shades of rose, red or pink it is unexcelled. The satiny cup-shaped flowers cover the compact-growing plants. The seed should be sown in the fall or early spring.

Dwarf Single Mixed—Height 10 to 15 inches. Pkt. 10c.

Azalea Flora—Dwarf double variety. Flowers are carmine and when the plant is in full bloom it is nothing but one mass of flowers. Highly recommended for pot culture. Pkt. 15c.

Duke of York—Rich scarlet flowers (see page 3 for description). Pkt. 15c.

Tall Double Carminea....Pkt. 10c

Tall Double Lavender ...Pkt. 10c

Tall Double RoseaPkt. 10c

Tall Double CrimsonPkt. 10c

Tall Double Mixed.....Pkt. 10c, 1/2 oz. 25c

ORNAMENTAL GOURDS

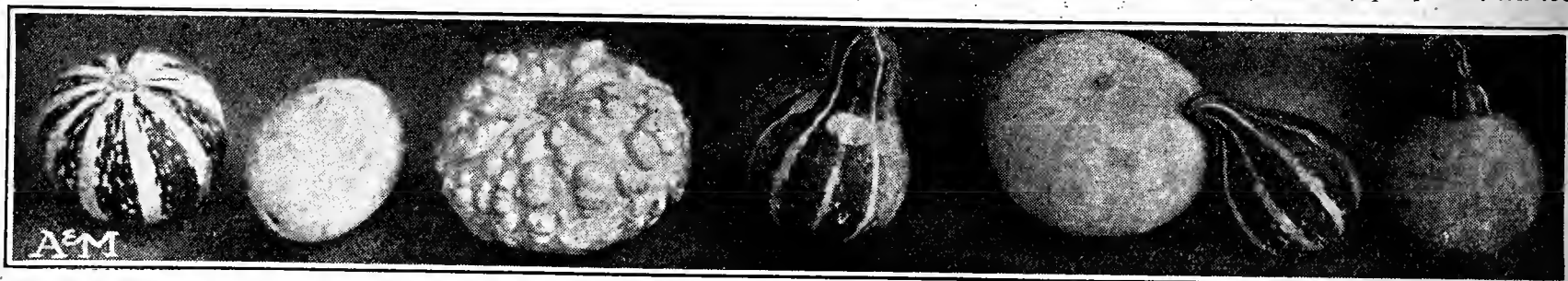
The growing of ornamental gourds has come much to the fore in recent years. They are hybrids and therefore many surprises will be found when the fruits mature. Many are fantastically beautiful and some useful. Seeds should be sown about 1 inch deep, after all danger of frost is over, and the plants should be left 1-2 feet apart. Plant in full sun and keep soil moist—but not too wet.

Large Sorts Mixed—A good mixture of large sorts. Useful for making into lamps, vases, baskets, etc. Pkt. 10c.

Small Sorts Mixed—These can be painted or shellacked and used as ornaments. Pkt. 10c.

A & M French Mixed—Small ornamental hybrids. Imported seed. Pkt. 25c.

OTHER GOURDS LISTED ON PAGE 17.



Mixed Ornamental Gourds

GEUM

A beautiful hardy perennial producing flowers in profusion from spring till fall. It is an excellent cut flower, having long stems and keeping well.

Mrs. Bradshaw's Double Red—Large bright orange-scarlet double flowers. Pkt. 15c.

Lady Stratheden—A very striking double yellow flower, very large. Pkt. 15c.

Prince of Orange—(New). Rich orange (see page 3 for description). Pkt. 50c.

GLOXINIA

Robusta Grandiflora Mixed—Beautiful house plant forming flowers of varied rich hues. Seed should be sown in shallow pans in warm temperature during February and the young plants transplanted into pots as soon as large enough. In no stage of growth should the leaves be wetted. Use two parts leaf mold, one part loam and one part peat humus for best results. Pkt. 50c.

GOMPHRENA

Entirely different in appearance from any other everlasting flower, and very attractive. Has a globe-shaped flower resembling a clover blossom which when cut and dried holds its shape and color well. Mixed, Pkt. 10c, 1/2 oz. 30c.

GYPSOPHILA

Where the winters are mild Gypsophila seed may be sown any time. It is a hardy annual of easy culture and seed should be sown at frequent intervals to provide sprays of Gypsophila to mix with other flowers in bouquets. Two perennial varieties are also listed below.

Elegans Grandiflora—Annual white. Very largely grown by florists for use in bouquets. Pkt. 10c, oz. 25c.

Elegans Crimson—Very showy. Pkt. 10c, oz. 35c.

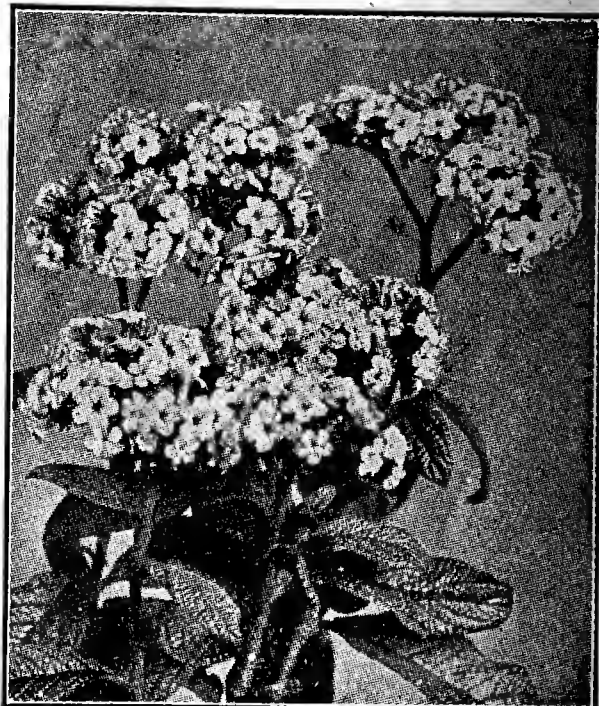
Elegans Carmine—A recent introduction of a deep carmine. Pkt. 10c, oz. 35c.

Elegans Rose—A delicate shade. Pkt. 10c, oz. 35c.

Paniculata—Fine for bouquets; white flowers, perennial. Pkt. 10c.

Double Snow White—Beautiful double form of Paniculata white. Pkt. 25c.

London Market—White. A greatly improved strain (see page 3 for description). Pkt. 15c.



Heliotrope

HELIOTROPE

A half-hardy perennial growing 4 to 8 feet high. Small flowers, borne in graceful clusters and very fragrant. Blooms first season from seed if sown early. Forms a large plant and requires a roomy situation.

Finest Mixed—A mixture of best types in shades of white, mauve, purple. Pkt. 15c.

HEUCHERA (Coral Bells)

Sanguinea Splendens—Hardy perennial 1½ feet high. Beautiful vermillion color (see page 3 for description). Pkt. 25c.

HIBISCUS

Beautiful shrub-like plants growing from 3 to 5 feet high. The flowers are 4 to 5 inches in diameter and our mixture contains many bright and varied colors. Perennial. If sown early in the spring will bloom the first year, and it is a good idea to cut the plants back after blooming. **Finest Mixed**—Pkt. 15c.

Sunset or Golden Bowl—Deep cream with velvety maroon center. Pkt. 15c.



Double Hollyhock

HELICHRYSUM

(Straw Flower)

A free-flowering, hardy annual, growing four or five feet high and bearing beautiful straw-like flowers in a great variety of shades and colors.

All Colors Mixed—Pkt. 10c, ½ oz. 35c.

HUMULUS (Japanese Hop)

A rapid growing ornamental climber covering arbors, trellises, etc. in one season. The foliage resembles the common Hop and is very luxuriant, making a dense vine. Will stand extreme heat, and remain green until frost. An annual.

Japonicus—Green foliage and a strong grower. Plant seed in Spring after soil has begun to warm. Pkt. 10c, ¼ oz. 25c.

Japonicus Variegatus—Beautifully splashed and striped with silver. Pkt. 10c.

IMPATIENS

Very brilliantly colored tender perennial, valuable alike as a pot plant or for shady beds. Grows easily from seed. 1-2 feet high.

Sultani Hybrids—Wide range of colors from pale pink to crimson. Pkt. 20c.

Holstii Hybrids—Colors vary from pink to lilac and ruby to scarlet. Pkt. 20c.



Helichrysum

A & M HOLLYHOCKS

A hardy perennial of upright, stately growth, 5 to 8 feet high, unequalled for a background or covering ugly places. The seed may be sown in the fall and will bloom the following spring. If sown in the early spring many will flower in the summer. The seed is generally sown in seed beds and transplanted where they are to grow.

Pkt. ¼ oz.	Pkt. ¼ oz.	Pkt. ¼ oz.
Double Rose ..\$.10 \$.60	Double Apple Blossom \$.10 \$.60	Double Yellow \$.10 \$.60
Double Maroon .10 .60	Double Salmon Rose.. .10 .60	Double White. .10 .60
Double Scarlet. .10 .60	Double Newport Pink. .10 .60	Double Mixed. .10 .45

Collection No. 20-F—One packet each of any six named varieties, 50c.

Double Orange Prince—(New). Distinct new shade in Hollyhocks—a rich apricot orange. Pkt. 15c.

Imperator—Very large fringed flowers 6 in. across; double rosette in center resembling a crested begonia. Colors ranging through delicate pink to cerise salmon. Pkt. 15c.

Perennial Single Mixed—Pkt. 10c.

HUNNEMANNIA (Bush Eschscholtzia)

Known also as the Mexican Tulip Poppy. An erect-growing, tender perennial, about 2 feet high. Foliage fine-cut, blossoms beautifully cup-shaped, bright yellow and about 3 to 4 inches across. Stems, long and smooth. Unlike the average poppy, Hunnemannia will keep for several days in water and makes a splendid cut flower.

Single—Pkt. 15c, ½ oz. 50c.

Sunlite—New semi-double (see page 3 for description). Pkt. 25c.

ICE PLANT (Mesembryanthemum)

Crystallinum—The variety is largely grown for glistening foliage. Leaves are large, fleshy and covered with glistening dots. The flowers are small and white. Pkt. 10c.

Tricolor—This variety forms a veritable carpet of triple colored flowers. The petals are a brilliant red with black center and white zone. Pkt. 15c.

IPOMOEA

Splendid rapid growing climbers. Flowers are beautiful and varied and resemble giant Morning Glories. Foliage is luxuriant and makes a growth of 10 to 30 feet a season. The seed of several varieties, especially the moon flower, should have outer shell punctured and then soaked in water for twelve hours or more to germinate it.

Double Rose Marie—(New). Flowers are semi-double, and deep rose. A good vine and a beautiful flower. Pkt. 15c.

Bona Nox (Evening Glory)—Fragrant violet flowers, expanding in the evening. An annual. Pkt. 10c, ½ oz. 25c.

Giant Pink—Large flowers in a delightful shade of pink. Pkt. 10c, ½ oz. 30c.

Grandiflora Alba (White Moonflower)—Large white fragrant flowers which expand at night and early morning. Annual. Pkt. 10c, ½ oz. 30c.

Heavenly Blue—Sky blue flowers and one of the most attractive of Ipomoeas. An annual. Pkt. 15c, ¼ oz. 40c.

JACOBAEA

Double Mixed—Graceful free-flowering annual, producing dense heads of double flowers, which make delightful bouquets. Pkt. 15c.

JOB'S TEARS—See Coix Lachrymae

KALANCHOE

Globulifera Coccinea—New succulent 12 inches high. Greenhouse pot plant but may be grown outdoors in a mild winter climate. Flowers freely in a few months from sowing seed. Color bright scarlet. Pkt. 50c.

KENILWORTH IVY

An attractive little perennial trailing plant, very useful for baskets, pots and rock work. Pkt. 10c.

KOCHIA (Summer Cypress)

Childsii Improved—A splendid ornamental annual plant, forming dense oval bushes, 2 to 4 feet high, of small feathery light green foliage. As summer advances this changes to a carmine hue and finally to a fiery red. A very attractive plant at all times. Also called "Burning Bush." Pkt. 10c, oz. 25c.

KUDZU VINE (Pueraria Thumbergiana)

One of the most rapid growing vines known, often making 40 feet in a season. It may be trimmed frequently for stock feed. All kinds of animals eat it rapidly, especially good for milch cows and goats. The seed is slow in germinating and should be punctured or soaked over night in warm water. Pkt. 10c, oz. 60c.

LANTANA

A tender perennial. The plants become shrubs either large or small according to variety. They are used for borders, hedges and specimen plants, and bear verbena-like clusters of flowers. The mixtures which we offer contain scarlet, orange, white, yellow, rose and other colors. We do not have separate colors.

Choice Tall Mixed—Height 3 to 5 feet. Pkt. 10c, oz. 55c.

Choice Dwarf Mixed—Height 1 to 3 feet. Pkt. 10c, oz. 75c.

LATHYRUS LATIFOLIUS

Everlasting Pea—A hardy perennial climber of great beauty with elegant sweet pea-like flowers in great profusion; height, 6 to 8 feet.

Fine Mixed. Pkt. 10c, ½ oz. 50c.

LAVATERA

Splendens Rosea—An annual of easy culture growing 2 to 3 feet in height. The plants are bushy and bloom profusely through the summer and fall. The flowers resemble single Hollyhocks and make attractive bouquets when cut. Pkt. 10c.

LAYIA

Elegans—"Tidy Tips." Annual California native. A pretty yellow daisy edged cream. Height 1-2 feet. Pkt. 10c.

LEPTOSIPHON

Hybrids Mixed—Profuse blooming annual. Grows about 8 inches high and is very useful for rock gardens and for edgings. Flowers are of varied colors and very showy. Pkt. 15c.

LEPTOSYNE

Maritima—Annual, 3 feet. The pale yellow flower similar to Marguerites are borne on long stems. Re-seeds in fall and produces abundance of flowers in February and March when flowers are scarce. Pkt. 15c, ¼ oz. 35c.

LILIUM REGALE

This Lily may readily be grown from seed. The flowers inside are canary yellow fading to white and suffused pink. Outside they are white shaded purple. Very profuse bloomer, particularly suited to California. Lift the bulblets in the fall and replant deeper. Pkt. 15c.

LINARIA

Maroccana Mixed—Annual growing about 1 foot high, producing graceful spikes of varied colored flowers. They are of easy culture and once established will grow to good size plants and produce a wealth of bloom. Sow in flats and transplant. Pkt. 15c, ¼ oz. 25c.

Macedonica Speciosa—Hardy perennial which will bloom first year if sown early. Produces in abundance long spikes of pale yellow flowers which are excellent for cutting; height 3 feet. Pkt. 15c.



Linaria, Maroccana



Leptosyne Maritima

LINUM (Scarlet Flax)

Grandiflorum Rubrum—A hardy annual of slender and graceful appearance with fine foliage and bright red flowers. It makes beautiful beds or borders and is largely used for cut flowers. Scarlet Flax makes a fine fall and winter flower, blooming profusely for several months. May also be sown in the spring. Height 1½ to 3 feet. Pkt. 10c, oz. 40c, ¼ lb. \$1.00.

Perenne (Blue Flax)—Slender growing hardy perennial producing a profusion of light blue flowers. Height 2½ feet. Pkt. 10c.

Flavum—Produces masses of golden yellow flowers throughout the summer. Perennial. 1-2 feet. Pkt. 10c.

LIPPIA CITRIODORA

(Lemon Verbena)—An old garden favorite with delightfully scented evergreen leaves. Low growing plant with pale green foliage. Pkt. 10c.

LOBELIA

This hardy annual grows four to six inches high, is of compact growth, and literally covered with small bright flowers. By cutting back the plants during the summer and giving plenty of water they may be kept in flower all summer. Used for ribbon work and borders or hanging baskets.

Crystal Palace—Undoubtedly the finest dwarf blue Lobelia for bedding. Plants very compact, profusely covered with rich, blue flowers. Height, 4 inches. Pkt. 10c.

Hamburgia—A trailing variety specially suited as a graceful plant for hanging baskets. Light blue. Pkt. 10c.

Royal Purple—Deep rich, blue-purple flower, height 6 inches, very compact. Pkt. 10c.

Bedding Queen—Very dwarf. Deep purple-violet flowers with white eye. Pkt. 10c.

LUPIN

One of our most attractive and easiest grown native flowers. The plants grow 2 to 3 ft. high and have handsome spikes of flowers which are fine for cutting. If the plants are not allowed to go to seed they flower for several months in the spring.

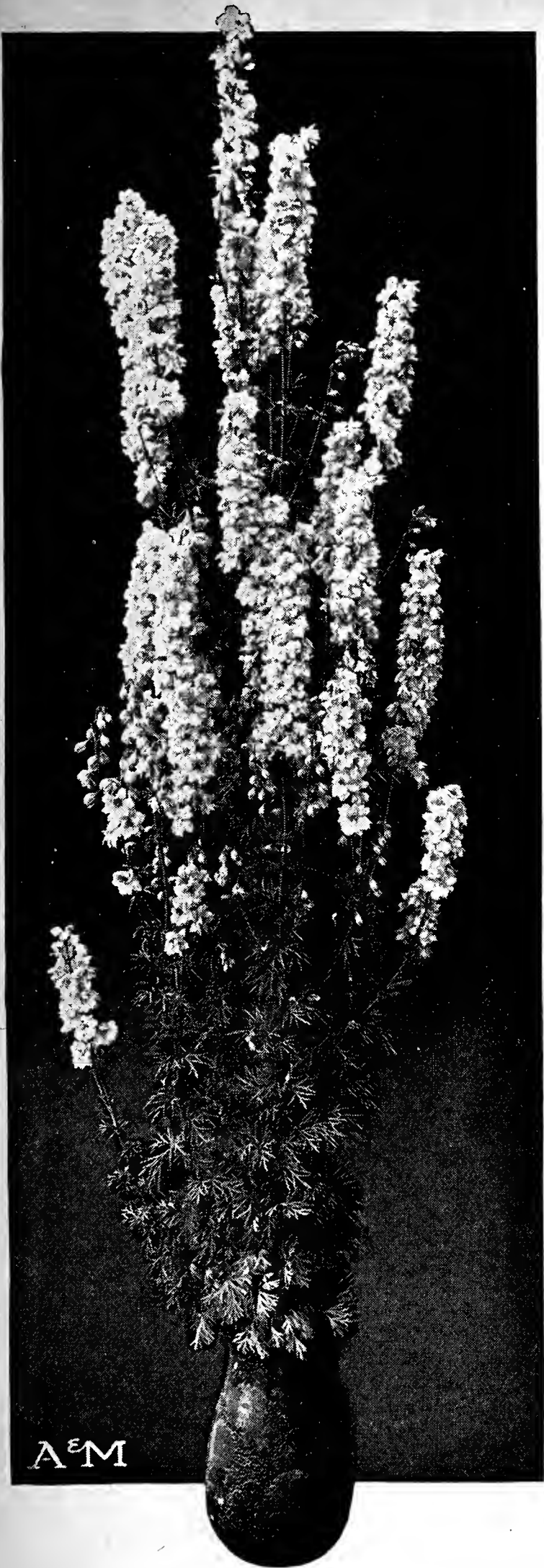
Hartwegi Dark Blue—Pkt. 10c, oz. 30c.

Hartwegi Sky Blue—Pkt. 10c, oz. 30c.

Hartwegi Mixed—Pkt. 10c, oz. 30c.

Hartwegi Giants Mixed—(New). Grows from 3-4 feet tall. (See page 3 for description.) Pkt. 25c.

Perennial Lupin—A very beautiful hardy perennial. The foliage is a soft green and the stately spikes of flowers rise several feet above the foliage. They bloom continuously during the spring. Choice Mixed—Pkt. 15c, ½ oz. 45c.



A & M Larkspur

LOVE-IN-A-MIST—See Nigella

LUNARIA

Blennis Purple (Honesty)—Hardy biennial usually grown as an annual. Much admired for its silvery seed pods which are used for winter decorations. Grows 2 to 3 feet high. Pkt. 10c.

UPRIGHT LARKSPURS

By sowing the seeds at frequent intervals you may have Larkspur blooming several times during the year. For best results seeds should be sown where the plants are to remain and they are most easily sprouted when the soil and weather are cool. Transplanted plants of Larkspurs very often do not thrive.

New and Exceptional Varieties

BLUE BELL—(New). A delightful clear light blue. Upright type with long base branching spikes. Pkt. 25c.

CARMINE KING — This is one of the finest new larkspurs. Long straight laterals, growth upright and close to the center stalk, color rich carmine. Pkt. 15c, ¼ oz. 35c.

MISS CALIFORNIA—Here is a new color that you will like—a rich deep pink on salmon ground. Plants grow 3 to 5 feet tall and branch freely. Pkt. 15c, ¼ oz. 35c.

LOS ANGELES—Rich rose colored spikes with dark green foliage. Pkt. 15c, ¼ oz. 35c.

LA FRANCE — Exceptionally pleasing light salmon pink—lighter shade than Miss California. Pkt. 15c, ¼ oz. 35c.

BLUE SPIRE — A magnificent tall blue larkspur... Pkt. 15c, ¼ oz. 35c.

LILAC SPIRE—Base branching type of larkspur, with exquisite lilac colored spikes. Pkt. 15c, ¼ oz. 35c.

WHITE SPIRE — Dazzling pure white similar in habit to above. Pkt. 15c, ¼ oz. 35c.

DE LUXE MIXED—A mixture of the newest larkspurs, including the new salmon shades. Pkt. 15c, ¼ oz. 35c.

Collection 23-F — One packet each of any five exceptional varieties, your choice or ours—60c.

Larkspur-Rosamond (New)

An early stock-flowered variety which holds remarkably well its pure rose color without fading. This outstanding novelty larkspur won third place in the All-American competition for novelties selected for 1934, and was awarded a gold medal by the judges at these trials. Pkt. 25c.

Standard Varieties

	Pkt.	¼ oz.	oz.
Lustrous Carmine—Glowing color	10c	30c	75c
Ageratum Blue—Medium blue	10c	30c	75c
Dark Blue—A rich deep blue	10c	30c	75c
Scarlet Rose—Brilliant deep rose.....	10c	30c	75c
Lilac—A lovely shade	10c	30c	75c
White—Pure white	10c	30c	75c
A & M Mixed—All colors	10c	25c	60c

Collection No. 22-F — One packet each of the above named six varieties, 45c.

MATHIOLA BICORNIS (Night Scented Stocks)

An old-fashioned annual whose purplish flowers are of delightful fragrance emitted in the evening. Pkt. 10c, oz. 30c.

MATRICARIA (Fever Few)

Double White (Capensis)—A perennial bearing small double white flowers. Good for cutting. An old fashioned garden flower. Pkt. 10c, ¼ oz. 30c.

Golden Ball—A compact dwarf plant, used for borders. The flowers are a double yellow and bloom freely. Pkt. 10c.

MIGNONETTE

Hardy annual, growing 6 to 12 inches high and bearing pyramid-shaped spikes, exceedingly fragrant. The seeds may be sown from early spring until fall for a succession of bloom. It is used for bedding, borders, and cut flowers.

A & M Colossal—A new giant Mignonette. The spikes are two to three inches in diameter and each plant has many spikes. The flowers are a deep cream and fragrant. A novelty worth having. Pkt. 15c, ¼ oz. 40c.

New York Market—A magnificent strain of Machet Mignonette especially suitable for florists. The flowering spikes are extra long. Pkt. 15c, ¼ oz. 50c.

Goliath Red—Robust growing variety with enormous spikes of red colored flowers; height, 15 inches. Pkt. 10c, ¼ oz. 40c.

Machet Mixed—A dwarf compact variety, with large stubby spikes covered with copper-red flowers. Pkt. 10c, oz. 30c.

Odorata Mixed—Sweet scented. Pkt. 10c, oz. 30c.

MIMULUS

Tigrinus Queen's Prize Mixed—Commonly called Monkey Flower. A dwarf, bushy growing annual blooming freely throughout summer. Gloxinia-like flowers, yellow to crimson. Does best in a moist, shady situation. Height 1 foot. Pkt. 10c.

MINA LOBATA

A showy hardy annual climber, bearing flowers of a brilliant red, changing to a pale yellow. Makes a luxuriant growth of 15 to 20 feet and flowers freely all summer. Blooms 3 months after sowing. Adapted for porches, arbors, etc. Pkt. 10c.

A & M MARIGOLD

Marigold is a hardy annual in dwarf and tall varieties. The African Tall Double requires summer heat to produce best results, but in climates similar to Southern California the French varieties may be planted for winter blooming.

African Marigolds usually produce about 40% plants bearing single flowers, but the remaining plants bearing double flowers are very fine form in the A & M strain. For extra large flowers and long stems they may be disbranched and disbudded.

Special African Marigold

A & M Special African Orange—A genuine improved strain of exceptionally large flowers (see page 3 for description). Pkt. 35c.

A & M Special African Lemon—Similar to above but bright lemon yellow. Pkt. 35c.

African (Fistulosa Type)

African Tall Double Orange—Beautifully formed flowers of gigantic size and bright color; height 2½ ft. Pkt. 10c, ⅛ oz. 35c.

African Tall Double Lemon—Like the above but a pure citrus yellow. Pkt. 10c, ⅛ oz. 35c.

African Tall Double Mixed—Pkt. 10c, ⅛ oz. 35c.

Tall French

The flowers are much smaller than the African, but are greatly prized for bedding.

Tall French Single Brown—This fine flower is being grown extensively for florists. It is a combination of beautiful shades of brown and fine for cutting. Pkt. 10c, ¼ oz. 25c.

Tall French Mixed—In shades of yellow, brown and tricolors. Height, 2 ft. Pkt. 10c, ¼ oz. 25c.

Dwarf French

Dwarf French Monarch—(New). Lovely double flowers (see page 4 for description). Pkt. 20c.

Dwarf French Gold Star—(New). See page 4 for description. Pkt. 20c.

A & M Dwarf French Golden Ball Marigold—This is one of the finest border plants. Habit of growth is compact and it blooms well over a long season. In climates similar to Southern California, planted in the early fall, it blooms all winter or if planted in early spring will bloom throughout the summer. The round golden yellow flowers are very attractive and pleasing. Pkt. 10c, ¼ oz. 25c.

Dwarf French Legion of Honor—The flowers are single and a dark, velvety brown, gracefully surrounded by a distinct gold ring. The compact, bushy plant flowers abundantly and is more lasting than any other annual. Pkt. 10c, ¼ oz. 25c.

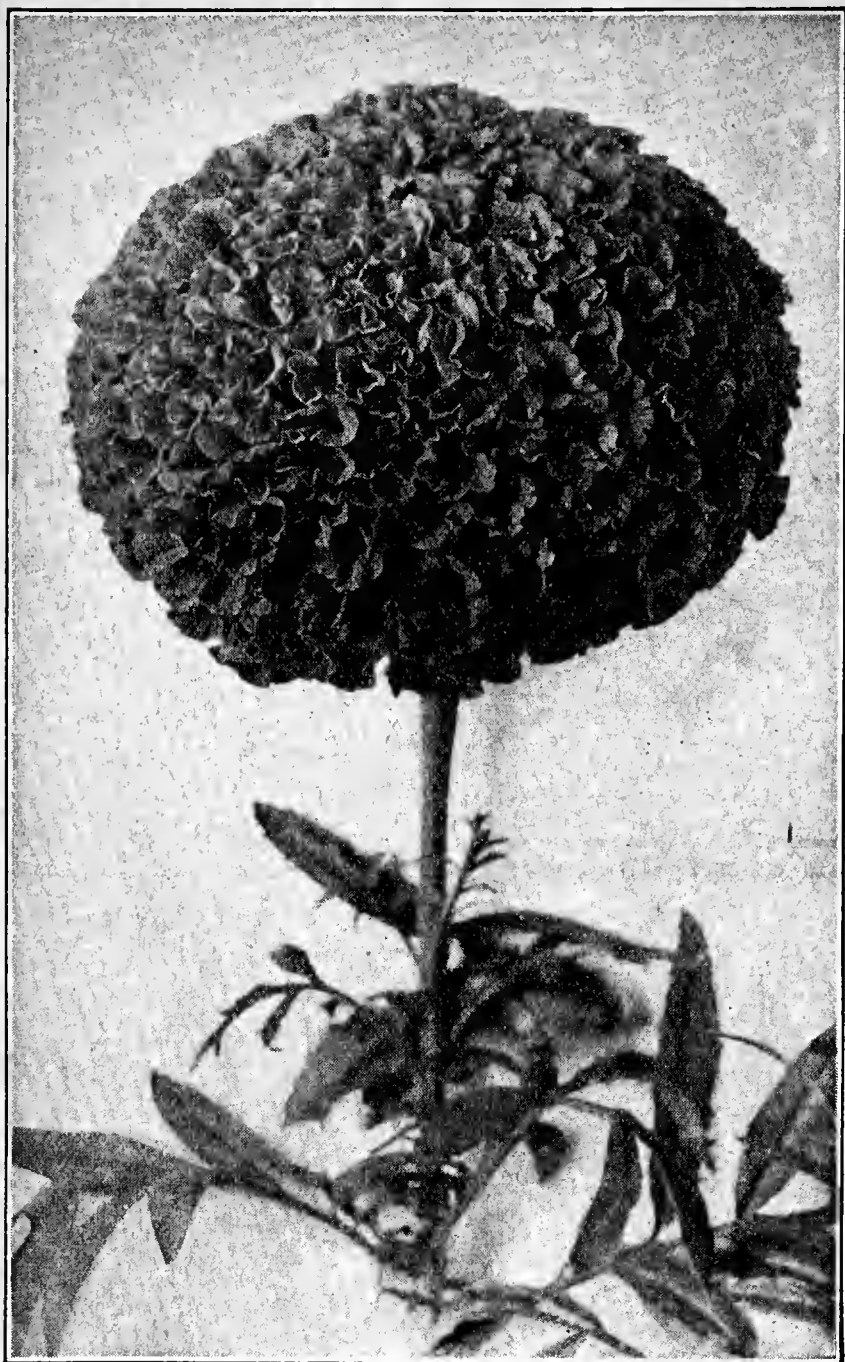
Dwarf French Double Dark Brown—Pkt. 10c, ¼ oz. 25c.

Dwarf French Electric Light—Double form of Legion of Honor. Pkt. 10c, ¼ oz. 25c.

Dwarf French Mixed—10 inches high. Pkt. 10c, oz. 45c.

Guinea Gold Marigold

This new marigold has created quite a sensation (see page 4 for description). Pkt. 20c.



A & M Tall African Marigold

MORAEA

Irioides—Charming bulb plant much like Iris, but not so hardy as the common Iris. The flowers are 3 inches across and are white marked yellow and blue. It blooms every two weeks from early spring to fall. Perennial. Height 1-2 feet. Pkt. 25c.

A & M MORNING GLORY (Convolvulus)

Free flowering, rich and varied colored flowers. The climbers are very useful for covering lattice work, verandas, etc., where they are exceedingly effective. Soak the seed for several hours in warm water before planting.

A & M Giant Flowered Mixed—You will like this one. The flowers are exceptionally large and in a good range of colors. A splendid shade vine. Pkt. 15c, ¼ oz. 30c.

Major Tall Mixed—Attains a height of 15 feet or more. Pkt. 10c, oz. 20c.

Imperial Japanese Morning Glory—Strong growth, varying colors. Height 15-20 feet. Pkt. 10c, oz. 30c.

MOONFLOWER—See Ipomoea

MOURNING BRIDE—See Scabiosa

MYOSOTIS—See Forget-Me-Not

NEMESIA

This hardy annual thrives in the California climate. It is a lovely flower of easy culture and should be planted more generously. You need to make the acquaintance of a new flower occasionally and this is one you will be glad to know. Sow the seed in the fall, winter and early spring months.

Strumosa Suttoni—Grows to a height of about 15 inches; fine for window boxes, borders and mass plantings. Pkt. 25c.

COMPACTA TYPES—8-12 Inches

Aurora—Carmine red with white lip Pkt. 25c

Blue Gem—Forget-me-not blue color Pkt. 25c

Fire King—Bright scarlet Pkt. 25c

Nana Compacta Triumph Mixed—A brilliant assortment of colors Pkt. 25c



Nemesis, Strumosa Suttoni

A & M NASTURTIUMS

These favorite and well known flowers are popular because of the great variety of colors which may be obtained with very little labor. They are not particular as to soil, fertility or cultivation and may be seen at the beach resorts growing in banks of pure sand where they get little or no attention. If you have an unsightly spot, plant A & M Nasturtiums and convert it into a beauty spot. The Dwarf varieties may be used for bedding and borders while the tall climbing varieties may be used for covering unsightly fences and fence corners. They will bloom in a few weeks after planting and will continue until cut down by the frost.

New Double Sweet-Scented Nasturtium

GOLDEN GLEAM—A unique novelty in Nasturtiums. The plant forms a vigorous, large bush which throws out runners averaging 18 inches. The flowers are double, delightfully fragrant and of an attractive golden yellow color. When at full bloom the entire plant is a blaze of color. Pkt. 15c, 1/2 oz. 45c.

Dwarf Nasturtiums

	Pkt.	Oz.	1/4 Lb.
Aurora—Terra Cotta color.....	.10	\$.20	\$.60
Empress of India—Deep Crimson.....	.10	.20	.60
Cloth of Gold—Fiery red.....	.10	.20	.60
Golden King—Pure yellow.....	.10	.20	.60
King of Tom Thumbs—Deep Scarlet.....	.10	.20	.60
Ruby King—Bluish rose.....	.10	.20	.60
Vesuvius—Salmon.....	.10	.20	.60
A & M Dwarf Mixed..... (lb. \$1.45)	.10	.20	.50

Collection No. 24F—One packet each of the above seven named varieties, 55c.

Tall Nasturtiums

	Pkt.	Oz.	1/4 Lb.
Brilliant—Bright scarlet.....	.10	\$.20	\$.60
Cloth of Gold—Fiery red.....	.10	.20	.60
Jupiter—Golden yellow.....	.10	.20	.60
Regellanus—Crimson.....	.10	.20	.60
Twilight—Yellow and rose.....	.10	.20	.60
King Theodore—Bright crimson.....	.10	.20	.60
Scarlet.....	.10	.20	.60
A & M Tall Mixed..... (lb. \$1.45)	.10	.20	.50

Collection No. 26F—One packet each of the above seven named varieties, 55c.

NEMOPHILA

.. hardy California annual growing about six inches high. The blossoms are cup-shaped and the colors are blue, white, lavender and spotted. The seed may be sown from October to March and is very valuable for carpet bedding.

Insignis (Baby Blue Eyes)—Sky blue, with white eyes. Pkt. 10c, oz. 25c.

Choice Mixture—Pkt. 10c, oz. 25c.

NEPETA MUSSINI

One of the best rock garden plants. It blooms nearly all the time and the flowers are lilac blue on stems 12 inches high. The whole plant is aromatic. Hardy perennial. Pkt. 20c.

NICOTIANA, OR FLOWERING TOBACCO

A hardy annual growing 3 to 4 feet high and of branching habit. The plants are covered with the slender tubular flowers all summer. They may be used as a back ground or as single specimens. Popular for its evening fragrance.

Affinis—White, and very fragrant. Pkt. 10c, 1/2 oz. 25c.

Sanderæ Mixed—A new, large flowering type, with various bright-colored blossoms. Pkt. 10c, 1/2 oz. 30c.

NIGELLA (Love-in-a-Mist)

A hardy annual, one foot high, with finely cut foliage. Oddly shaped blossoms in blue and white and curious seed pods. Of easy culture.

Miss Jekyll—Long stemmed flowers which are of a clear cornflower blue; elegant foliage; height, 18 inches. Pkt. 10c.

Mixed Colors—Blue and white. Pkt. 10c, oz. 30c.

OENOTHERA

Evening Scented Primrose—A tall growing plant bearing an abundance of large yellow flowers which expand in the evening. Height 2 to 3 feet. May be planted in part shade.

They are very sweet scented, are a valuable addition to any garden. Easily grown. Pkt. 10c, oz. 25c.

PAINTED DAISIES (Annual Chrysanthemum)

These hardy annuals are very showy and effective garden favorites. They grow to a height of about 2 1/2 feet, producing a profusion of very lovely daisy-like flowers. Contrasting colors are produced in zones, these zones being well defined and of bright colors. They are easily grown, excellent for cutting purposes and are used freely in California as a florist cut flower. They do not require much water.

A & M Mixed Painted Daisies—All colors. Pkt. 10c, oz. 50c.

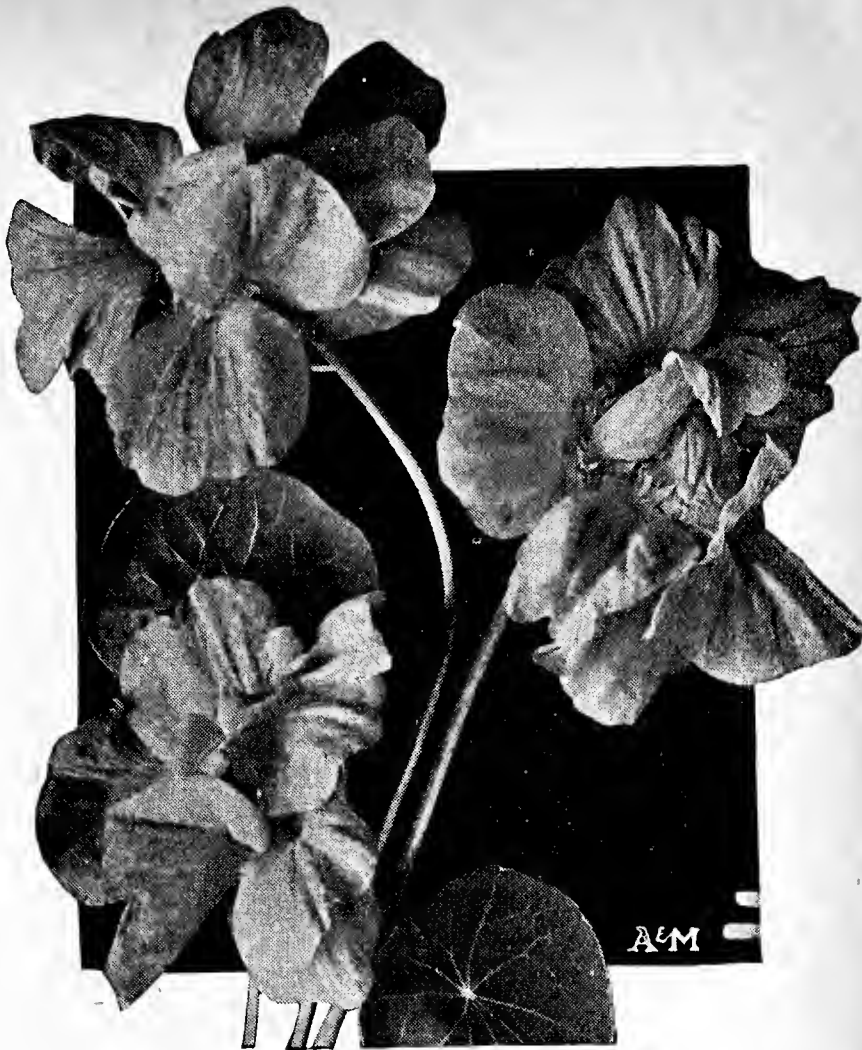
PASSIFLORA (Passion Vine)

Edulis — Perennial climber and rampant grower blossoming freely. The pulp of the fruit is delicious. Pkt. 15c.

PHYSALIS FRANCHETI

(Chinese Lantern Plant)

This hardy biennial plant grows to a height of about 2 feet and is a profuse bloomer, producing many large striking flowers of a beautiful brilliant orange red color resembling Chinese lanterns in shape. Pkt. 15c.



Nasturtium—Golden Gleam

PHACELIA

Campanularia—Very showy annual; gentian blue bell-shaped flowers. Makes charming pot plant; is effective for edging; 8 inches. Pkt. 15c.

Tanacetifolia—Grows to a height of about 18 inches producing large compact heads of pale mauve flowers. Pkt. 10c.

Whitlavia—(Wild Canterbury Bells). Large hanging bell-shaped flowers, violet purple in color. Annual; 1-1 1/2 ft. Pkt. 10c.

PHYSOSTEGIA

Speciosa (False Dragon Head)—Very pretty hardy perennial growing 4-5 feet high. Flowers are of varying shades of pink. Splendid for borders. Pkt. 25c.

PLATYCODON

Grandiflora—(Balloon Flower). A hardy perennial blooming the first year from seed. Grows into a large bushy plant bearing a profusion of balloon-shaped buds, later opening to blue flowers averaging 2 1/2 inches in diameter. Thrives in a well-drained soil. Pkt. 20c.

POLEMONIUM

Coeruleum (Jacob's Ladder)—Popular hardy perennial plant with beautiful bell shaped blue flower and fern-like foliage. Height 2 feet. Pkt. 10c.

PORTULACA (Moss Rose)

Beautiful race of dwarf plants for rock work or dry sunny locations, bearing glossy cup-shaped blossoms in brilliant colors. Annual.

Double Mixed—Saved from the finest flowers only, and will produce a large percentage of doubles. Pkt. 15c.

Single Mixed—Large flowers. Pkt. 10c, 1/2 oz. 35c.

PRIMULA (Primrose)

Primroses are charming plants which blossom freely during the spring and winter. They are of easy culture and should be sown from March to May and again July to August for a succession of bloom. All make splendid pot plants and some blossom freely out of doors even during the winter.

Giant Flowered—The beautiful Fringed Chinese and Obconica Grandiflora are large flowered, bloom freely for several months and are one of very best house plants. We offer only best seed.

Chinese Fringed Mixed—Pkt. 25c.

Obconica Grandiflora—Pkt. 25c.

Malacoides—A free flowering improved variety of Baby Primrose. They may be planted out of doors or used as pot plants. If planted in August in partial shade they will flower freely during the winter. Flowers a delicate lilac. Pkt. 20c.

Veris, Polyanthus, Mixed—Well known member of the primula family very useful for mass bedding preferring a shady situation. Pkt. 20c.

Auricula, Fine Mixed—Seed saved from the finest varieties covering a wide range of beautiful shades. Excellent for bedding and also valuable for the rock garden. Pkt. 20c.

Vulgaris — True yellow primrose that grows in the English woods. Pkt. 20c.

A & M PANSIES

Pansies thrive best in a moist, sunny location and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers later in the spring. The plants must be transplanted twice in order to get the largest flowers; once from the seed box to a chosen bed, and again to the open garden. This is important for large size pansies; use manure liberally. The blossoms are usually larger in the spring and again in the fall, and while they bloom freely all summer, the blossoms are small during the hot months.

It is much more interesting, satisfactory and inexpensive to grow your own pansies from seed. By so doing you may select and carry out your individual color scheme; you may also select your own types and take advantage of some of the finest varieties the plants of which are not offered for sale.



A & M
Super Maximum
Pansies

A & M Giant French Pansies

Where masses of distinct colors are desired, A & M Giant Pansies will prove of great value.

- Aurora—Pure white. Pkt. 10c.
- Azure Blue—Pale blue. Pkt. 10c.
- Eros—Velvety brown with yellow margin. Pkt. 10c.
- Golden Queen—Pleasing golden color. Pkt. 10c.
- King of the Blacks—Velvety black. Pkt. 10c.
- Lord Beaconsfield—Purple violet; upper petals shading lighter. Pkt. 10c.
- Prince Henry — Darkest blue, very large beautiful flower. Pkt. 10c.
- Ruby Red—Very large blooms in striking red shades. Pkt. 10c.
- Collection of the above Eight Varieties for 50c.
- A & M Giant French Mixed—A very showy mixture of vigorous compact growth. Fine bedding strain. Pkt. 10c, 1/8 oz. 25c.

PENTSTEMON

- Gloxinioides "Sensation"—The large Gloxinia shaped blossoms vary from pure white, pink, rose and crimson to mauve and purple, including many which are beautifully edged. Hardy perennials. Height, 2 feet. Pkt. 15c.
- Cobaea—(New). Super trumpet-shaped flowers 2 inches in diameter (see page 4 for description). Pkt. 25c.
- Miniature Hybrids Mixed—A range of beautiful colors; particularly fine for cutting. Pkt. 15c.

A & M Super Maximum

A lovely and distinct strain bearing extra large flowers with long stems that hold them well above the foliage. We introduced this pansy particularly for those who want an extraordinary strain, and we are pleased to recommend them highly. Letters from many friends indicate they are very satisfactory, and our own trials are greatly admired by all who see them. Pkt. 35c, 1-16 oz. \$1.45, 1/8 oz. \$2.85, 1/4 oz. \$5.60.

A & M English Giant Mixture

Fascinating bright color combinations (see page 4 for description). Pkt. 35c.

Swiss Giants

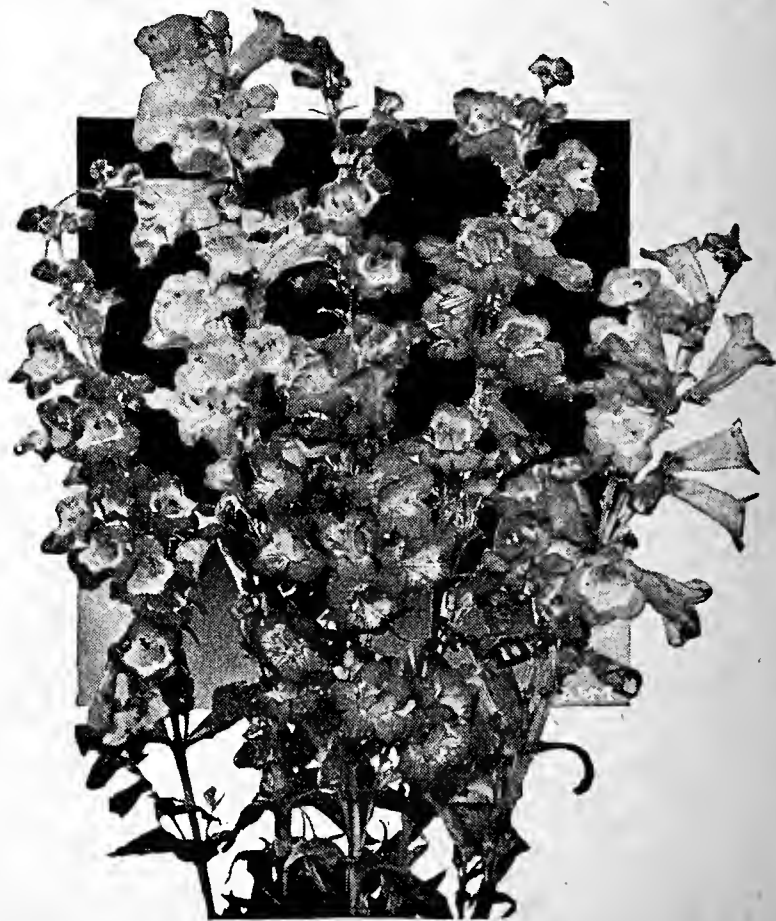
To be sure of the best Swiss Giant Pansies, you should plant the seed and grow your own plants. Mix one-third sand to two-thirds peat moss; add a little sulphur to this and sow the seed. After the seeds have sprouted, keep them slightly moist, but not too wet.

- Alpenglow—Cardinal shades. Pkt. 35c.
- Lake of Thun—Swiss blue. Pkt. 35c.
- Swiss Yellow—Golden. Pkt. 35c.
- Swiss Giant Mixed—Pkt. 25c, 1-16 oz. \$1.10, 1/8 oz. \$2.00, 1/4 oz. \$3.85, oz. \$11.50.

A & M Mastodon Pansies

A very popular beautiful strain of pansies. They bloom two to four weeks earlier than most strains, produce very large showy flowers and are exceptionally fine for beds, borders and window or porch boxes.

- Adonis—Lovely sky blue. Pkt. 20c.
- Bronze Mastodon—Very large, with all the different shades from burnished brass to gold, with no two flowers exactly alike. Pkt. 20c.
- Improved Beaconsfield—A delightful bluish purple with lavender tinge on upper petals. Pkt. 20c.
- Madame Steele—Elks purple, of fine form and enormous size. Pkt. 20c.
- Panama Pacific—A huge deep yellow, some have the dark center, some without. A beautiful bedding color. Pkt. 20c.
- Parisian Yellow—Beautiful pure yellow. Pkt. 20c.
- Rose Shades—Varied shades of rose, white borders. Pkt. 20c.
- White Mastodon—Snow white with a large center, very large and beautiful. Pkt. 20c.
- Mastodon Mixed—A wonderful collection of rich velvety shades in great variety, with fine long stems. Pkt. 15c, 1/8 oz. \$1.25.



Pentstemon

A & M PETUNIA



Giant Ruffled Pink

Giant Ruffled Red

Gt. Ruf. Variegated

Gt. Ruf. American Beauty

There are marvelous possibilities in home garden Petunia growing. Many new and improved types may be trained in interesting form on lattice, pillars, mass bedding, etc. The culture of Petunias is simple. Seeds may be planted from September to March in cold frames or boxes. Equal parts of loam soil and fine river sand provides a good seed bed.

Broadcast seeds on the surface and sift fine sand to barely cover the seed. Water with a fine fog spray. A covering of glass will assist in holding the moisture until seeds are germinated and should be removed to give seedlings fresh air and to harden them. Do not expose the very young seedlings to hot sun but give them plenty of light and air the first few days after germination. A cloth screen is sufficient protection. The very best strains of Petunias will produce a small percentage of inferior flowers, and the smaller plants often produce the best flowers; therefore plants should be taken as they come.

FANCY DOUBLE VARIETIES

Salmon Double—This is a charming new color in petunias and one that will surely please you. Seed will produce about 75% large double flowers and about 50% true salmon color. The remainder should be large ruffled flowers of salmon and variegated shades. Pkt. 50c, 3 pkts. \$1.25.

Superb Double Fringed Mixed—One of the finest strains of Petunias in existence. The double flowers are very large, full and symmetrically formed, having the edges of the petals beautifully fringed. Pkt. 50c, 3 pkts. \$1.25.

GIANT RUFFLED AND FRINGED

Giant Ruffled Pink—The aristocrat of the giant petunias. The flower is very large, ruffled, deep pink, veined and with an almost black center. Pkt. 50c.

Giant Ruffled Red—In size and form very similar to the above. Color red with black center. Pkt. 35c.

Giant Ruffled Copper Red—A very large flower and a striking color. Habit dwarf. Pkt. 35c.

Giant Ruffled American Beauty—A cerise rose color with light colored throat. Plants are semi-dwarf, flowers large. Pkt. 35c.

Giant Ruffled Salmon—The same color as the Double Salmon listed above. This is a new shade in petunias and will add attractiveness to your garden. Pkt. 50c.

Giant Ruffled Lilac Queen—Large heavily ruffled flower of lilac with purple veins and black throat. Habit is semi-dwarf. Pkt. 35c.

Giant Ruffled Variegated—You will have a great variety of rich color variations from this seed. Makes a beautiful mass planting effect. Plants are semi-dwarf and may be set quite close together in the garden. Flowers are large and ruffled. Pkt. 35c.

Giant Ruffled Mixed—An unusually fine mixture of ruffled monsters, containing all colors of the named varieties. Pkt. 35c.

Glants of California—A magnificent strain of ruffled and fringed petunias producing an array of glorious colors which will be appreciated by all growers of petunias. Pkt. 25c.

Theodosia—(Fringed). Very fascinating fringed petunia of a soft rose pink, beautifully veined. Pkt. 35c.

Frimbriata Coerulea—(Fringed). Steel blue in color and very attractively and deeply fringed. Pkt. 35c.

Cattleya—(Fringed). Rose-pink with lavender cast. Pkt. 35c

Giant Fringed Mixed—Mixture of the foregoing single fringed varieties. Pkt. 35c.

Giant Blue—(Plain Edge). Large single flower with plain edge. Deep purplish velvety blue. Pkt. 35c.

Giant Pink Glory—(Plain Edge). Mammoth flowers of a pure rich rose pink. Pkt. 35c.

STANDARD BEDDING VARIETIES

Hybrida Golden Rose—Brilliant shade of rose with yellow throat (see page 4 for description). Pkt. 20c, 1/8 oz. 45c.

Rose of Heaven—Dwarf rose pink. Height about 10 inches, compact and free flowering. Pkt. 10c, 1/8 oz. 40c.

Blue Bee—Rich velvety deep blue. Pkt. 15c.

Silver Blue—A nice light blue that will add a touch of needed color to your petunia bed. Pkt. 15c, 1/8 oz. 50c.

Nana Erecta Rosy Morn—Of the same compact growth as Nana Erecta Snowball, but of lovely pink color with contrasting white throat. An improved strain. Pkt. 10c, 1/8 oz. 50c.

Nana Erecta Violacea—A new strain. This is a fine deep violet, the texture of flower is like velvet and the plant growth erect and compact, like all of this class. Pkt. 10c, 1/8 oz. 50c.

Nana Erecta Snowball—The plants are erect and compact and are specially adapted for borders. The flowers are large in constant bloom. Pkt. 10c, 1/8 oz. 40c.

Howard's Star Improved—Large velvety purple with a white star. Makes a very striking and attractive bed or border. Pkt. 10c, 1/8 oz. 40c.

General Dodds—A rich, blood red; this is a fine color. The flowers are large and erect and the plants large and free blooming. Pkt. 10c, 1/8 oz. 30c.

Grandiflora Single Mixed—Exceedingly handsome and free flowering, containing greatest variety of colors, yellow throated, veined and blotched. Very large flowers. Pkt. 10c, 1/8 oz. 35c.

Hybrida Fine Mixed—A good Petunia for massing in beds and borders, yielding a profusion of brilliantly marked flowers. Pkt. 10c, 1/4 oz. 35c.

BALCONY PETUNIAS

Used extensively in California for training up on lattice-work, fences, etc.

Balcony BluePkt. 15c Balcony CrimsonPkt. 15c

Balcony RosePkt. 15c Balcony WhitePkt. 15c

Balcony Mixed.....Pkt. 15c

Collection No. 30-F—1 pkt. each of above 4 named varieties, 50c.

A & M POPPIES

The different varieties of poppies are always favorites for outdoor display and the cultivation of them being so extremely simple entitles them to a place in every garden. Seed should be sown where the plants are intended to flower, because it is difficult to transplant them with any measure of success. Thin to 12 inches apart and give plenty of water just before buds appear. In California, October to March is the best planting season. Poppies cut in the bud will open and make beautiful bouquets.

TALL DOUBLE POPPIES

A & M Giant Ebelle—Salmon shades—magnificent poppy similar to double peony in form and bearing huge flowers of salmon shades. We consider this one of the finest double annual poppies yet offered. Pkt. 15c, ¼ oz. 35c.

A & M Giant Ebelle White—Flowers a beautiful white, otherwise similar to the preceding variety. Pkt. 15c, ¼ oz. 35c.

Double Carnation Flowered Mixed—Flowers are very double, ball-shaped and well fringed. The plants grow 3-4 feet high bearing blooms of brilliant colors making a grand garden display. Annual. Pkt. 10c, oz. 30c.

Double Peony Flowered Mixed—Flowers are oval in shape and the petals are plain edged. They make a glorious showing. Annual; 3-4 feet. Pkt. 10c, oz. 30c.

Single Annual Shirley

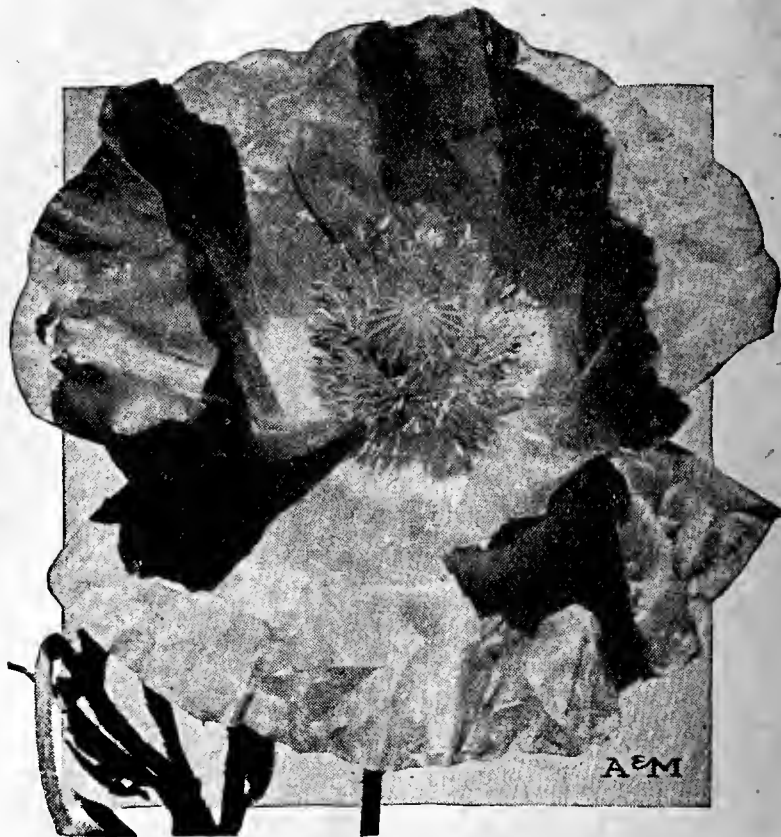
The most charming poppy in cultivation. The blossoms are bright and showy and include an almost endless variety of colors, from pure white, pink, terra cotta, salmon, chamois and rosy carmine, to brilliant crimson, many of the flowers being beautifully flaked or edged with white.

A & M Shirley—Fine mixed. Pkt. 10c, oz. 30c.

Flanders Poppy—The famous poppy of Flanders Field. A single annual of blood red color. Abundant in the fields of Europe. Pkt. 10c, ¼ oz. 25c.

Tulip Poppy (Glaucum)—Resembles the tulip in form. Color a dazzling scarlet and very effective for beds or masses. Pkt. 10c, ¼ oz. 25c.

American Legion—A brilliant orange-scarlet with contrasting yellow anthers. The flowers are very large and the plants grow to a height of 2½-3 feet. A very beautiful Poppy and one especially recommended for mass bedding. Pkt. 10c, ¼ oz. 25c.



Single Shirley Poppy

Double Annual Shirley

Eldorado Double Shirley—A new and lovely variety of Shirley poppies in a variety of wonderful colors. Each flower has many full petals giving the double appearance. A bed of these poppies would be a delight to any lover of flowers. Pkt. 10c, ¼ oz. 25c.

Sweet Briar—A beautiful deep rose-pink, full double Shirley Poppy (see page 4 for description). Pkt. 20c.

Dazzler—Vivid orange-scarlet begonia-like poppy. About 2½ feet high. Pkt. 20c.

Perennial Poppies

Oriental Hybrids Mixed—These tall stately Poppies have immense flowers in the most gorgeous colors. Height 2½ ft. Our seed has been saved from the choicest new hybrids. Pkt. 15c.

Nudicaule, Iceland Poppy—A beautiful class of perennial poppies. Sow in March and they will flower the same year. The beautiful large blossoms are borne on wire-like stems above the fern-like foliage, with a great variety of colors. The Iceland Poppy has more lasting qualities as a cut flower, than any other poppy.

Single Mixed—Pkt. 10c. **Double Mixed**—Pkt. 25c.

Sandford's Giant Iceland—Single Iceland Poppy in a beautiful range of colors (see page 4 for description). Pkt. 25c.

A & M Australian Hybrids—This new type of Iceland Poppies introduced from Australia contains many beautiful shades of light pink through to orange. The stems are stiff and carry the huge flowers to perfection. Good for cutting. Pkt. 25c.

El Monte—A delightful poppy extensively grown by florists. The large petals of tangerine orange on long stiff stems makes it a very useful cut flower. Pkt. 25c.

PYRETHRUM

Hardy perennials which are easily grown and make handsome plants.

Single Mixed—This variety is a tall vigorous grower and flowers freely. The flowers are daisy-like and the colors vary from rose, pink and cream to white; all have yellow centers. They make very desirable cut flowers, keeping well in water. Pkt. 10c, ⅛ oz. 50c.

Double Mixed—Produces fair percentage of doubles. Pkt. 25c.

Golden Feather—Fine compact habit of growth, with bright yellow foliage, largely used for edgings and ribbon borders. Height, 9 inches. Pkt. 10c.



A & M Giant Ebelle Poppy

You may be interested to know I have used your seeds for quite a few years out here and can only recommend them as the best seeds I've ever had to any of my friends. Thanking you. Mrs. H. L. Burke, Brethren Mission, Nigeria.



Phlox Drummondii

PHLOX DRUMMONDII

One of the most beautiful and easiest grown of our hardy garden annuals. The flowers are produced in large trusses and may be had in many lovely colors. The seed may be sown in boxes and transplanted when danger of frost is over or may later be sown in the open. They make a very effective show when grown in masses or borders.

Large Flowering Grandiflora—A fine type having large heads of bloom and growing 15 inches in height. This variety may be used for cutting.

	Pkt.	1/4 oz.
Scarlet	10c	50c
Yellow	10c	50c
Light Rose	10c	50c
Lilac	10c	50c
Rosy Chamols	10c	50c
White	10c	50c
Grandiflora Mixed	10c	45c

Collection No. 29F—One packet each of the above six named varieties, 45c.

Nana Compacta Dwarf—This type has the large individual blooms of the Grandiflora but the growth of the plant is compact and dwarf attaining a height of 8 inches. Magnificent for parkings and low borders.

Apricot	Pkt. 15c
Chamois Rose	Pkt. 15c
Defiance—Salmon scarlet	Pkt. 15c
Dark Purple	Pkt. 15c
White	Pkt. 15c
Nana Compacta Mixed.....	Pkt. 10c

Collection 27-F—One packet each of the above five named varieties for 60c.

Star Phlox—A dwarf variety bearing star shaped blossoms in great abundance. Pkt. 10c, 1/8 oz. 35c.

Perennial Mixed—The bright colored flowers make a pleasing border. Seed is slow in germinating and from fall sowings seedlings will often not show until following spring. Pkt. 20c.

When gardening protect your hands with a pair of soft, pliable Eezy Wear Gloves—see page 90.

RANUNCULUS

A & M Superba Hybrids—This very popular flower may be grown readily from seed though home gardeners have usually grown them from bulbs. The seed should be sown in good sandy loam, covered lightly with sand and kept moist. May be planted from early fall to January and will flower the first season from seed. This is an extra fine double strain and contains a splendid range of colors. Pkt. 35c, 1-16 oz. 75c.

RUDBECKIA

Bicolor Superba—These hardy annuals are of easy culture and produce an abundance of flowers. The flowers have a cone in the center surrounded by yellow and brown petals. These bright flowers are borne gracefully on long stems, and are especially recommended for cutting. Pkt. 10c, 1/4 oz. 30c.

RHODANTHE

Maculata Rosea—One of the most attractive everlasting flowers. The flowers hang like little bells on the stems and make a dainty cut flower either fresh or dried. Pkt. 10c.

RICINUS (Castor Oil Plant)

Effective for semi-tropical garden. Easily raised from seed, and should be grown in deep rich soil.

Gibsoni—Deep red foliage; 5-6 feet. Pkt. 10c, oz. 25c.
Red Spire—Enormous spikes of brilliant rosy salmon flowers; pretty bronzy-green foliage; 6-7 feet. Pkt. 10c, oz. 25c.
Sanguineus—Blood red stalks and red fruit. Height 8 feet. Pkt. 10c, oz. 25c.

Zanzibarlensis—The giant type of the Castor Bean. Foliage varies in shades of color during the different stages of growth. Very suitable as a windbreak. Pkt. 10c, oz. 25c.

Mixed Varities—Pkt. 10c, oz. 25c.

ROCK GARDENS

Throughout the flower seed pages will be found listed numerous rock garden plants and below will be found a summary of these together with other garden plants suitable for the purpose.

Annuals

Abronia—Trailing plant with Verbena like flowers.

Alyssum—Little Gem.

Anagallis—Height 6 inches.

Browallia—Rich blue flowers. Stands considerable cold; 18 inches.

Candytuft—Miniature Gem.

Leptosiphon—Flowers are very showy.

Mesembryanthemum Crystallinum—Ice plant, white flowers.

Nemophila—(Baby Blue Eyes).

Portulaca—(Moss Rose).

Viola—(Tufted Pansies).

Rock Garden Annuals Mixed—A splendid mixture of dwarf annuals (see page 5 for description). Pkt. 25c.

Perennials

Agathea—Blue marguerite-like flowers.

Alyssum—Saxatile Yellow, height 1 foot.

Alyssum, Rock Garden Perennial Mixed.

Arabis Alpina—(Rock Cress) 6-12 in. Fine white flowers.

Armeria—Flowers rose pink.

Aubrietia—Varied colors. Trailing.

Bellis Perennis—Well known English Daisy.

Candytuft Gibraltarica—Lilac flowers.

Cerastium Blebersteinli—Pretty narrow white foliage.

Cheiranthus Allioni—Orange flowers.

Dianthus Deltoides—Crimson flowers.

Dianthus Caesius—Rosy pink.

Dianthus, Rock Garden Mixture.

Erigeron—Mauve blue with yellow centers.

Forget-Me-Not—Suitable for moist situations.

Heuchera—Height 1 1/2 feet, crimson flowers.

Kenilworth Ivy—Little trailing plant.

Linum Perenne—(Blue Flax), attractive blue flowers.

Nepeta Mussini—Aromatic plant with lilac blue flowers.

Polemonium—Bell shaped blue flowers, height 2 feet.

Petunia—(Balcony varieties), separate colors, of blue, rose, crimson, and white.

Saponaria Ocymoides—Trailing plant with rose colored flowers.

Silene Schafta—Bright pink flowers; 4-6 inches.

Stachys Lanata—Striking silver leaved plant.

Tunica Saxifraga—Tiny star-like pink flowers.

Verbena Venosa—Flowers rich rosy purple.

Verbena Erinoides.

Rock Garden Perennials Mixed—Contains over 50 varieties (see page 5 for description). Pkt. 25c.

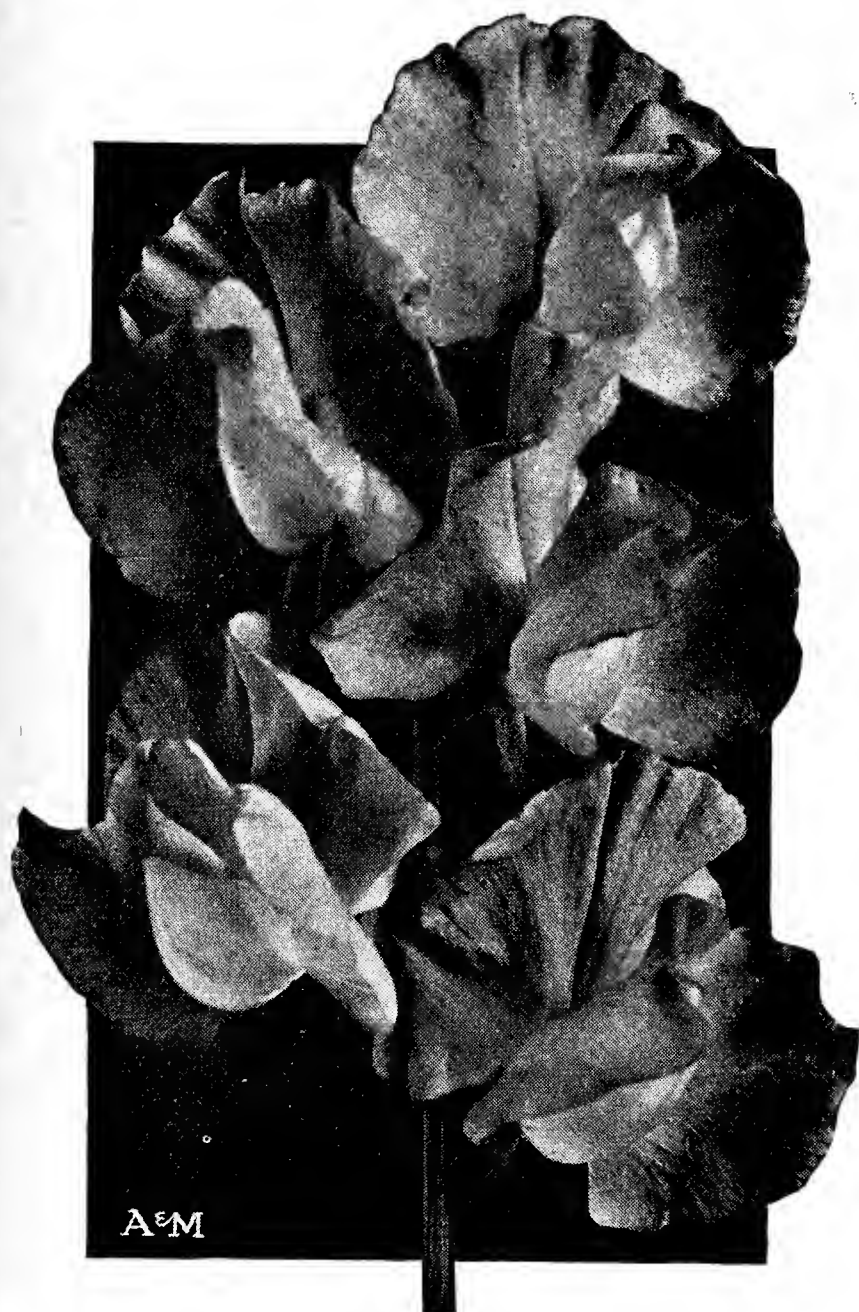
CALIFORNIA SWEET PEAS

Ask for Sweet Pea Culture, Bulletin No. 11

A & M Superflora

A & M SUPERFLORA Sweet Peas thrive in California where they have become one of the most popular winter blooming flowers. We list only those varieties which we believe will produce the best results in your home garden. Under proper culture they will produce large flowers, long stems, and beautiful blooms over a long period of time. In Southern California, planting season begins August 1st and continues throughout the fall and winter months. August and September plantings should bloom by November. To prolong the blooming season, cut the flowers regularly to prevent their forming seed pods.

Sweet Pea seeds require cool soil to sprout and if planted during the warm season, the seed bed should be shaded with a light covering of small twigs, or discarded garden plants or similar material, to keep the surface cool. Sweet Peas respond to fertilization and a liberal amount of barnyard manure, bonemeal and organic matter should be used in preparing the soil. Overwatering after they begin to bloom may cause the buds to drop without opening, in which event, withhold water.



New and Distinctive Varieties

A & M GLOW—Glorious new duplex Sweet Pea in a resplendent bright rose color. The flowers are phenomenally large, daintily frilled and usually borne four to the stem. Very vigorous grower. Pkt. 20c.

APOLLO—Soft appealing shade of salmon cerise. The flowers are unusually large, nicely waved and carried on stems of exceptional length. Pkt. 20c.

BLUE BONNET—An extra large, fine deep blue without the slightest trace of mauve. It has long stems with four blossoms to the stem. Pkt. 20c.

GREETING—A new and very pretty long-stemmed lavender. Slightly deeper than Fragrance. Pkt. 20c.

HOPE—Pure white and one of the latest improvements. Very fine flower and stem. Pkt. 20c.

LADDIE—One of the largest of rose-pink varieties. Pkt. 20c.

MISS ANNIE LAURIE—Rich rose pink, slightly deeper than others in this shade zone. Good flowers and stems. Pkt. 20c.

RED CROSS—Glowing poppy scarlet. Wonderful Christmas color. Pkt. 20c.

VALENCIA—Bright sunproof orange of soft tone. Has immense vigor in growth of good length of stems and bears fine large blooms. Pkt. 20c.

Collection 46-F—One packet each of six of the above new distinctive varieties (your selection) for \$1.00.

General List

AMETHYST—Light purple. Very finePkt. 15c, 1/2 oz. 35c

BLUE BIRD—Violet blue. Extra large
and one of the finestPkt. 15c, 1/2 oz. 35c

BRIGHT LIGHT—Flaming scarletPkt. 15c, 1/2 oz. 35c

COLUMBIA—Salmon rose with white wings .Pkt. 15c, 1/2 oz. 35c

EARLY DUPLEX GEM—Dainty rose
pink on cream groundPkt. 15c, 1/2 oz. 35c

GIANT LILAC—Mammoth lilac mauve;
distinct colorPkt. 15c, 1/2 oz. 35c

GLITTERS—Cerise. One of the most
popular for all purposesPkt. 15c, 1/2 oz. 35c

GRENADIER—Dazzling scarlet. New
and extra finePkt. 15c, 1/2 oz. 35c

HARMONY—Finest lavender to date.
Strong grower, extra large flowers
and exceedingly long stemsPkt. 15c, 1/2 oz. 35c

HERCULES—Florist pink. Extra large
strong grower, fine stemPkt. 15c, 1/2 oz. 35c

ILLUMINATION—Salmon cerise. A
popular favorite. GoodPkt. 15c, 1/2 oz. 35c

LOS ANGELES—Brilliant rose pinkPkt. 15c, 1/2 oz. 35c

MICHIGAN—Giant lavenderPkt. 15c, 1/2 oz. 35c

MRS. CALVIN COOLIDGE—Fine rich
salmon pinkPkt. 15c, 1/2 oz. 35c

NEW BLUE—A splendid bluePkt. 15c, 1/2 oz. 35c

ORIENTAL—Large deep clear cream
on long stemsPkt. 15c, 1/2 oz. 35c

OTHELLO—Maroon. Strong grower,
large flowers and good long stemPkt. 15c, 1/2 oz. 35c

PERFECTION—Flaming rose color, very
popularPkt. 15c, 1/2 oz. 35c

SNOWSTORM—Improved pure white.....Pkt. 15c, 1/2 oz. 35c

Three Outstanding Introductions

A & M ROMANCE—Sparkling salmon-rose color; large flowers and fine stems. Offered for the first time this year. Pkt. 25c.

A & M ROSITA—A splendid new introduction possessing many good qualities. Color glowing deep rose, suffused amber. Large flowers and long stiff stems; strong grower. Pkt. 25c.

FRAGRANCE—A beautiful clear lavender. Flowers are very large and the wings are slightly ruffled. Good stem; strong grower. Pkt. 25c.

Collection 48-F—One packet each of above three varieties, 65c.

FOR BEST RESULTS INOCULATE SWEET PEA SEED BEFORE SOWING WITH McQUEEN'S INOCULATOR. Pkt. 15c.

A & M Superflora Sweet Peas--Continued

- SPRINGSONG**—Light rose suffused salmon..Pkt. 15c, 1/2 oz. 35c
SUNRAY—Glowing cerise. A glorious color and a lovely sweet peaPkt. 15c, 1/2 oz. 35c
VULCAN—Vivid scarlet. A flower with some life to it. GlisteningPkt. 15c, 1/2 oz. 35c
WHITE HARMONY—Dainty white; black seededPkt. 15c, 1/2 oz. 35c
WHITE ROSE—Large pure white; long stem.Pkt. 15c, 1/2 oz. 35c
ZVOLANEK'S ORANGE—Medium orange .. Pkt. 15c, 1/2 oz. 35c
ZVOLANEK'S ROSE—Giant rose pink, vigorous, extra large flowers and exceedingly long stemsPkt. 15c, 1/2 oz. 35c

A & M SUPERFLORA MIXED—A well balanced mixture of many fine varieties including some of the late introductions and improved strains. Plant one ounce to a 30-foot row. 1/4 oz. 20c, 1/2 oz. 30c, oz. 45c, 1/4 lb. \$1.35, lb. \$4.50.

Rainbow Collection No. 1

6 packets of A & M Superflora and 1 packet
McQueen's Culture, 65c

One packet each—Harmony, Illumination, New Blue, White Harmony, Vulcan, Zvolanek's Rose.

Early Flowering Spencer Mixed—Pkt. 10c.

Standard Giant Spencers

For Spring and Summer Blooming

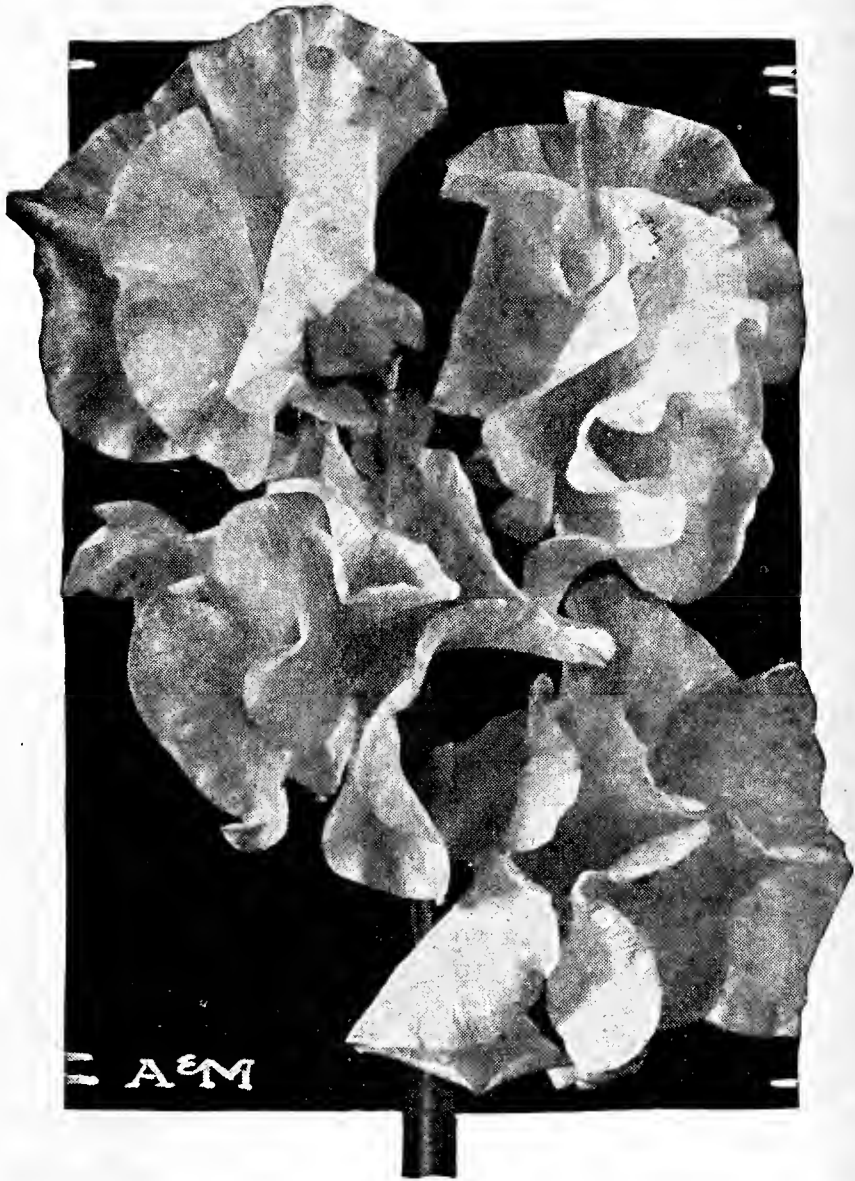
The Giant Spencers listed below are particularly recommended for spring and summer blooming and will thrive in any climate where other sweet peas will grow.

This strain of Sweet Peas bears three and four very large flowers on long, stiff stems. Many of the flowers are ruffled and wavy and the great assortment of shades makes them a remarkable strain for all purposes.

- AVALANCHE**—Glistening white of great substancePkt. 10c, Oz. 40c
BONFIRE—Cherry pink, cream wingsPkt. 10c, Oz. 40c
BRILLIANT ROSE—Tyrian rosePkt. 10c, Oz. 40c
CHARMING—Rose Cerise. Refined shade and splendid formPkt. 10c, Oz. 40c
CRIMSON KING—Crimson. Deep rich color and very largePkt. 10c, Oz. 40c
DEL MONTE—Salmon cerisePkt. 10c, Oz. 40c
ELEGANCE—Blush lilac, suffused pink.....Pkt. 10c, Oz. 40c
FANTASY—Maroon on cream groundPkt. 15c, Oz. 50c
FORTUNE—Rich dark bluePkt. 10c, Oz. 40c
GLENEAGLES—Very large lavender. Splendid in every respectPkt. 10c, Oz. 40c
HEAVENLY BLUE—New. Delphinium blue, very large and good stem.....Pkt. 10c, Oz. 40c
HUNTSMAN—Dazzling scarletPkt. 10c, Oz. 40c
MAMMOTH—Blazing orange scarletPkt. 10c, Oz. 40c
MARY PICKFORD—Dainty cream pink suffused salmonPkt. 10c, Oz. 40c
MISS CALIFORNIA—Orange salmon. Petals are ruffled and the flower is exceedingly attractivePkt. 10c, Oz. 40c
MRS. A. SEARLES—Rich pink merging into a soft oriental red selfPkt. 10c, Oz. 40c
OLYMPIA—Deep glowing purplePkt. 10c, Oz. 40c
PINKIE—Mammoth rose pink, long stems. One of the best introducedPkt. 10c, Oz. 40c
POWERSCOURT—Lavender. One of the finest. VigorousPkt. 10c, Oz. 40c
R. F. FELTON—Clear lavenderPkt. 10c, Oz. 40c
ROYAL PINK—Pure medium pinkPkt. 10c, Oz. 40c
ROYAL SALUTE—Deep cerisePkt. 10c, Oz. 40c
ROYAL SCOT—Orange scarlet. No other color just like this. Glistening.....Pkt. 10c, Oz. 40c
ROYAL SOVEREIGN—Glistening orangePkt. 10c, Oz. 40c
SUNKIST—Cream picotee edged rosePkt. 10c, Oz. 40c
THE CARDINAL—Scarlet. Intense poppy scarlet. StrikingPkt. 10c, Oz. 40c
THE CLOWN—White with crimson markings and edgesPkt. 15c, Oz. 50c
THE SULTAN—Deep velvety maroonPkt. 10c, Oz. 40c
WHAT JOY—Best creamPkt. 10c, Oz. 40c
YOUTH—Large white and pink picotee. Very attractive.....Pkt. 10c, Oz. 40c
A & M GIANT SPENCERS MIXED—A fine mixture of strong growers and good varieties. Pkt. 10c, oz. 30c, 1/4 lb. \$1.00, lb. \$3.00
A & M SUPERIOR SPENCER MIXED—A mixture of outstanding varieties including Fantasy and The Clown. Pkt. 15c, 1/2 oz. 25c.

CUPID SWEET PEAS

These Sweet Peas make the most brilliant and showy parkings, beds and low borders imaginable. They grow about 8 inches high and each plant is about 1 foot in diameter.
Cupid Grandiflora Mixed—Pkt. 10c, oz. 30c.
Cupid Spencer Mixed—Pkt. 10c, oz. 40c.



Rainbow Collection No. 3

6 packets Standard Giant Spencer and 1 packet
McQueen's Culture 50c

One packet each—Crimson King, Mary Pickford, Royal Salute, R. F. Felton, Fortune, Youth.

INOCULATE SWEET PEA SEEDS with McQUEEN'S INOCULATOR TO IMPROVE THEIR GROWTH—15c



Salpiglossis

A & M SCABIOSA

Large Flowering Annual Varieties

Mourning Bride, Pin Cushion—An old garden favorite and which has been much improved recently.

The flowers are large and vary from a lovely light blue to deepest red. They are borne on long graceful stems and produce abundantly from spring until autumn. They are especially recommended for cutting. Sow seed in boxes and transplant or sow in open ground after frost is over, and thin to 15 inches apart. Height 3 to 4 feet.

Giant Loveliness—A glorious new color in annual Scabiosa, the blossoms ranging through varying shades of soft delicate salmon rose. One of most beautiful ever introduced. Pkt. 15c.

	Pkt.	1/4 oz.
Ageratum Blue —Medium blue.....	10c	30c
Azure Fairy —Light blue.....	10c	30c
Black Prince —A deep red.....	10c	30c
Flesh Color —A soft flesh pink.....	10c	30c
Fiery Scarlet —A brilliant color.....	10c	30c
Peach Blossom —Very large light pink	10c	30c
Rose —Soft Rose	10c	30c
Shasta —Wonderful pure white	10c	30c
Yellow —Light yellow	10c	30c

Collection No. 34-F—One packet each of five varieties for 35c.

Mixed—A mixture of all shades. Pkt. 10c, 1/4 oz. 25c.

Hardy Perennial Scabiosa

Perennial Scabiosa are highly decorative and invaluable for cutting, lasting a long time in water. Seed should be planted in the fall for preference, but if sown in early spring the plants will bloom the first season. Height from 2-3 feet.

Isaac House Hybrids—This new hybrid strain is a great improvement over the Caucasica variety. The flowers are large with ruffled petals and range in color from white to darkest blue—lilac and mauve predominating. Pkt. 20c.

Columbaria Pink—Flowers of this beautiful new scabiosa are 2-2½ inches across borne on long slender stems. The attractive pink shades are decidedly novel in a perennial scabiosa. Pkt. 15c.

Columbaria Lavender—Similar to above but flowers dainty lavender shade. Pkt. 15c.

A & M SALPIGLOSSIS

Painted Glories

Highly ornamental half-hardy annual with large veined, funnel-shaped flowers; much prized for cutting; very showy in beds or border. A bed of these beautiful plants is one of the most striking features of the garden during June, July and August. Salpiglossis may be had in separate colors as well as mixed and very wonderful effects are possible with either one color or a combination of two or three of these separate varieties.

Chamois	Pkt. 15c
Velvety Red	Pkt. 15c
Velvety Violet	Pkt. 15c
Crimson and Gold	Pkt. 15c
Light Blue and Gold	Pkt. 15c
Rose and Gold	Pkt. 15c
Scarlet and Gold	Pkt. 15c
Violet and Gold	Pkt. 15c
Primrose	Pkt. 15c
Faust Black	Pkt. 15c
Yellow and White	Pkt. 15c

Collection No. 32-F—One packet each of the best six varieties 75c.

Superbissima Mixed—Containing many lovely color combinations. Pkt. 10c, 1/4 oz. 35c.

Gloxiniaflora Mixed—A special selection. The flowers are large and fantastically veined. Pkt. 15c, 1/4 oz. 45c.

SALVIA (Scarlet Sage)

A tender perennial blooming the first year from seed. They make gorgeous plants, the brilliant red blossoms are borne on long stems in racemes or spikes and are displayed with striking effect against the deep green foliage.

Splendens—Height 3 feet. Pkt. 10c, 1/8 oz. 50c.

Bonfire—Compact bush 2 feet in height. Pkt. 10c, 1/8 oz. 50c.

SALVIA—Blue Shades

Farinacea—A hardy perennial. The spikes of bright light blue flowers rise above the foliage in an almost continuous mass of bloom. Flowers are excellent for cutting. Plants may be used for beds, borders or as specimen plants among shrubs. Pkt. 15c.

Farinacea Blue Bedder—Deep blue flowers. The plant is dwarfer and more compact than Farinacea. Pkt. 15c.

Salvia Azurea—A beautiful hardy perennial producing spikes of pretty sky blue flowers in great profusion. Height 2-3 feet. Pkt. 15c.

Patens—An excellent bedding variety. Large rich deep blue flowers. Pkt. 15c.



Scabiosa—Giant Loveliness

SAPONARIA

Ocymoides—Showy trailing perennial producing pretty rose-colored flowers suitable for rockeries. 9 inches. Pkt. 10c.
Vaccaria Rosea—The light graceful sprays of this annual are invaluable for vases, especially in arrangement with other cut flowers. Sowings should be made in succession for a continual supply of flowers. Height 2 feet. Pkt. 10c.
Vaccaria Alba—White. Pkt. 10c.

SCARLET RUNNER

A variety of climbing bean having rich scarlet blooms and most useful for decorative purposes in covering arbors and unsightly structures. The pods are also appreciated as an addition to the vegetable list. Pkt. 10c.

SCHIZANTHUS

Very beautiful and interesting annuals. This is one of the easiest annuals to raise from seed. Sow in open where plants are to flower. Exceptionally beautiful when in full bloom and literally covered with small orchid-like flowers. When 4 inches high remove the points to induce the plant to bush.
Grandiflora Mixed—Pkt. 25c, 1/8 oz. 75c.
Wisetonensis Excelsior—Exceptionally large flowered mixture. Pkt. 25c, 1/8 oz. 75c.

SENSITIVE PLANT

An interesting plant, the leaves of which close when touched; elegant foliage; flowers pink. Pkt. 10c.

SHASTA DAISY—See Daisy

SIDALCEA

Rose Queen—Graceful perennial with hollyhock-like flowers. Suitable for sunny borders. Flowers are a bright rose pink. Height 2-3 feet. Pkt. 15c.

SILENE (Catchfly)

Siberica Rose — Brilliant rose (see page 4 for description). Pkt. 25c.
Pendula—Bright double rose colored flowers produced in great abundance on dwarf compact plants. Very excellent for borders, masses and recommended for carpet bedding on bulb beds. Annual; 10 inches. Pkt. 10c, oz. 25c.
Schafta—Very useful autumn border or rock plant with bright pink flowers. Perennial 4-6 inches high. Pkt. 15c.

SMILAX

A perennial vine which thrives best in shady location. Very useful for decorative purposes. Pkt. 15c, oz. 75c.

SNAPDRAGON—See Antirrhinum

SOLANUM

Capsicastrum Nanum (Jerusalem Cherry) — An ornamental shrub with bright red berries. Very useful for pots for winter decoration. Easily grown. 2 feet. Pkt. 10c, oz. 75c.
Clevelandi (Cleveland Cherry)—Similar to above but dwarfer in habit and produces more berries. Very ornamental. Height 1 foot. Pkt. 15c, 1/2 oz. 75c.

STACHY'S LANATA (Lamb's Ear)

Very striking silvery leaved plant, useful for edgings and rock gardens. A robust grower withstanding heat and drought. Hardy perennial. Height 6 inches. Pkt. 15c.

STATICE

Sinuata—An everlasting flower which is increasing in popularity. The plants throw large sprays of flowers which may be dried and make fine winter bouquets. It may be planted both in the spring and late summer. The seed should be kept quite moist until germinated.

	Pkt.	Oz.		Pkt.	Oz.
Blue	10c	60c	White	10c	60c
Bright Yellow	10c	60c	Mixed	10c	35c
Rosea Superba	10c	60c			

Caspia—A lovely variety having blue minute flowers borne in long sprays, which is much used to mix with other flowers because of its dainty graceful effect. It is a hardy perennial flowering during the summer and early fall. Pkt. 10c.

Latifolia — This variety produces large branching sprays of minute lavender-blue flowers that are invaluable for cutting. May be dried and used with everlasting flowers. Perennial. Pkt. 10c.

Perezii—A hardy perennial. The leaves are large and glossy and the flower stalk grows to a height of 2 feet or more above the leaves and is crowned with a mass of small violet blue flowers. This variety is popularly grown among shrubbery and as specimen plants. Pkt. 10c, 1/4 oz. 40c

STEVIA

Serrata — Small fragrant white flowers borne in large heads which are valuable for cutting. A free blooming perennial of easy culture. Pkt. 10c.

STOKESIA (Cornflower Aster)

Cyanea—A very comely perennial growing 2 feet tall, and bearing handsome lavender blue cornflower-like blooms in profusion. Flowers from midsummer until frost; good cut flower. Pkt. 10c, 1/8 oz. 50c.

STREPTOCARPUS

Mixed — Beautiful trumpet shaped flowers ranging in color through lavender, purple, rose and pure white. Makes a lovely pot plant and will bloom in the summer from early spring sowings. Pkt. 25c.

SUNFLOWER (Helianthus)

Maroon Prince—A dwarf strain of dark red Sunflower. It is true Maroon in color and makes a striking decoration for large vases. Pkt. 10c, 1/4 oz. 50c.
Extra Dwarf White Seeded—Very dwarf growing variety. The chrysanthemum like flowers are golden yellow in color. Pkt. 10c, oz. 50c.
California Double—Large, massive, bright yellow flowers, height 3-4 feet. Pkt. 10c, oz. 50c.
New Red Sunflower—The plant is of a freely-branching habit with well-shaped dark-centered flowers of bright chestnut red, merging to a yellow at the tips of the petals. Height 6 feet. Pkt. 10c, oz. 50c.
Mammoth Russian—Is planted largely for seed. It also makes a good windbreak and a very ornamental background. Requires little attention. Pkt. 10c, lb. 25c.
Autumn Glory—The flowers are about 2 inches in diameter with bright yellow petals and a dark center. Plant grows 6 feet tall and branches like a cosmos. During September and October each plant is a gorgeous mass of bloom. Pkt. 10c, 1/4 oz. 50c.



Sweet William—Single

SWEET WILLIAM (Dianthus Barbatus)

A hardy perennial blooming the second year from seed. Grows one to two feet high and bears its flowers in clusters at the end of a stiff stem. The individual flowerets are handsomely colored and marked. It makes a beautiful bedding plant.
Pink Beauty—Very dainty. Pkt. 10c, 1/4 oz. 25c.
Scarlet Beauty—Elegant for massing. Pkt. 10c, 1/4 oz. 25c.
Single Mixed—Very attractive. Pkt. 10c, 1/2 oz. 25c.
Double Mixed—Pkt. 10c, 1/4 oz. 35c.
Annual Single Mixed—A fine mixture blooming the first year from seed. Pkt. 10c, 1/4 oz. 50c.

TAGETES

Signata Pumila—A dwarf compact Marigold bearing golden-yellow flowers in great profusion. When full grown the plants are about 15 inches high with a spread of 15 to 18 inches and are entirely covered with blooms. It is an excellent annual border plant for large beds. Parks and estates can make good use of this attractive plant. Pkt. 15c.

THALICTRUM

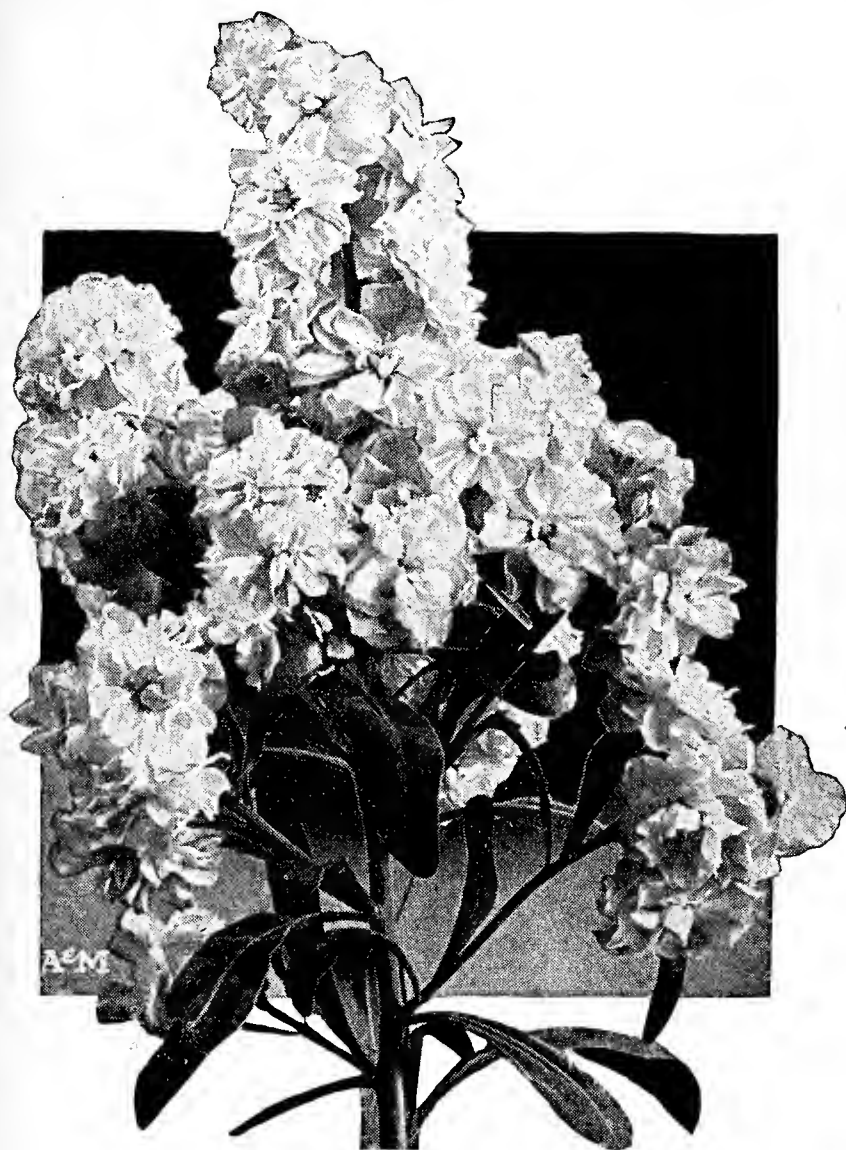
Dipterocarpum—A very beautiful perennial for the California home garden. It is not yet well known, but it is destined to be when more commonly planted. The flowers are small, violet mauve with contrasting yellow stamens. They are produced in graceful sprays standing 3 to 4 feet high and with foliage resembling Maidenhair Fern. Excellent for cutting and especially as a bouquet filler. Sow seeds in a bed where they may remain for a season. Growth is slow the first year. Pkt. 25c.

THUNBERGIA (Black Eyed Susan)

Alata Mixed—A free blooming annual climber with attractive green foliage. It is also used extensively in hanging baskets, window boxes, etc. The flowers are small in varied colors of yellow, orange and white with black eyes. Pkt. 10c.
Gibsoni—Beautiful vine with large brilliant orange flowers which are the admiration of all. Blooms almost all the year round and must not be planted in cold locations. The flowers are 1 1/2 to 2 inches across. Pkt. 25c.

A & M STOCKS

Sow the seeds of stocks in flats or cold frame and transplant to the garden when they are 2 or 3 inches high. For winter bloom in Southern California they require sun and well drained soil. In heavy soil, plant them on a slight ridge, permitting the water to drain from them during the rainy season. A & M Stocks are selected to produce an average of 75% plants bearing double flowers. For a mass of all double flowers, set close together and remove the single flowered plants when first flowers appear. Stocks are an outstanding garden favorite because of their delicately colored spikes and fascinating penetrative odor.



A & M Bismarck Stocks

Perpetual Branching Stocks

Glant Perfection—This type is of branching habit with long stems, making it very desirable for cutting. The percentage of double is high. Height 2 feet.

Blood Red	Pkt. 10c	Deep Purple	Pkt. 10c
Rose Pink	Pkt. 10c	Flesh Pink	Pkt. 10c
Lilac	Pkt. 10c	White	Pkt. 10c

Heatham Beauty—Rose shaded terra cotta.....Pkt. 10c

Mixed

1/8 oz. 50c, Pkt. 10c

Collection 44-F—One packet each of the above seven separate colors, 55c.

Large Flowering Ten Weeks Stocks

A & M Brilliant Mixed—Wonderful strain for bedding. Pkt. 10c, 1/4 oz. 50c.

TORENIA

Fournieri—This densely blooming annual is suitable for beds or hanging baskets. The plants are covered throughout the season with sky blue flowers somewhat resembling snapdragons. Prefers partial shade. Height 1 foot. Pkt. 15c.

TRITOMA

A & M Luminous Hybrids — Sometimes called Red Hot Poker. Flowers range in color from deep yellow to coral, orange and scarlet with some very striking combinations. Easily grown from seed by planting in flats and keeping thoroughly moist until germinated. Transplant when three or four leaves are formed. Pkt. 20c.

TUNICA SAXIFRAGA

An exceedingly pretty plant for rock gardens. The tiny star-like pale pink flowers are produced profusely the whole summer on rounded clumps. Hardy perennial; 1 foot. Pkt. 10c.

URSINIA

Anethoides—Height about 10 inches. Deep orange flowers with dark purple zone around the center. Stems are long and the flowers are desirable for cutting purposes. Being a native of South Africa it thrives in Southern California and similar climates. Annual. Pkt. 25c.

A & M Bismarck Stocks

This wonderful new strain of Stocks is of branching habit, making it possible to break long branches of flowers from the main stalk without injuring or destroying the beauty of the plant. The flowers are large and many of them on a stem. The sweet perfume of the Stocks make them most desirable for garden or for vases and the A & M Bismarck is the very latest improvement.

Bismarck Buttercup—(New)—Yellow (see page 5 for description)	Pkt. 25c
Bismarck Shasta—(New)—Glistening white (see page 5 for description)	Pkt. 25c
Bismarck Antique Copper—Hellebore red	Pkt. 20c
Bismarck Apple Blossom—Blush	Pkt. 20c
Bismarck Chamois—Ivory, tinted rose	Pkt. 20c
Bismarck Dark Blue—Near purple	Pkt. 20c
Bismarck Elk's Purple—Dark purple	Pkt. 20c
Bismarck Fiery Blood Red—Bright red	Pkt. 20c
Bismarck Golden Ball—Golden yellow	Pkt. 20c
Bismarck Golden Rose—Light golden rose	Pkt. 20c
Bismarck Lavender—Light lavender	Pkt. 20c
Bismarck Lilac—Dark lavender	Pkt. 20c
Bismarck Old Rose—Lovely shade of old rose.....	Pkt. 20c
Bismarck Rose—Deep rose pink	Pkt. 20c
Bismarck White—Pure white	Pkt. 20c

Collection No. 33F—One packet each of six selected separate colors, \$1.00.

A & M Bismarck Mixed—All colors. Pkt. 20c, 1/8 oz. 65c.

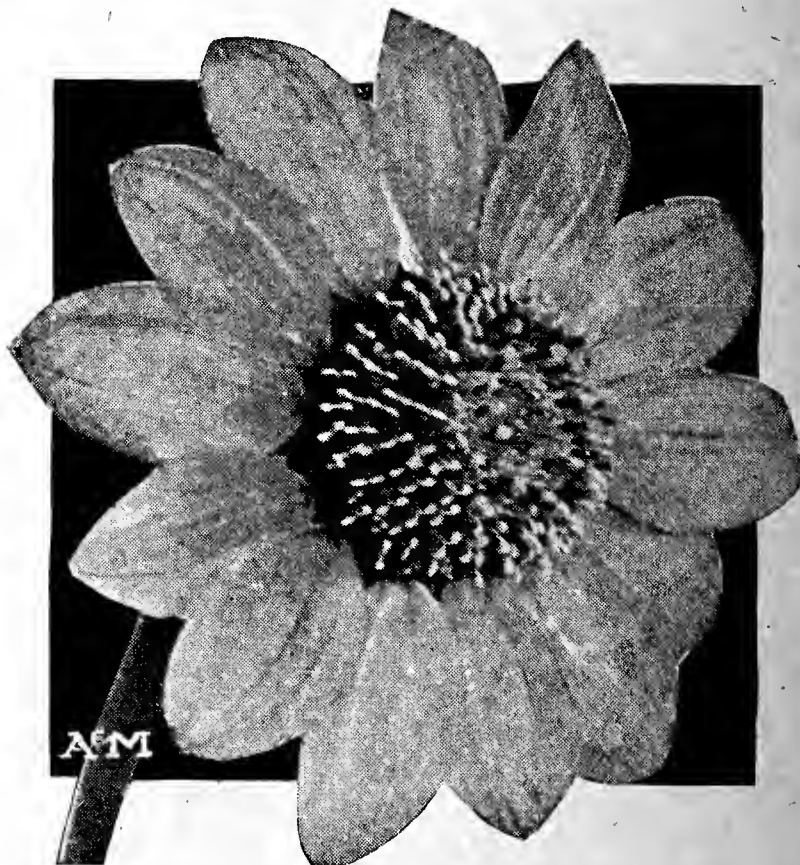
Early Mammoth Branching Nice

This type is excellent for bedding and borders and is splendid for cutting. We offer fine varieties in separate colors and a choice mixture. Height 18 inches.

Giant American Beauty (Rose Pink).....	Pkt. 15c
Giant Carmine Rose (Abundance)—Large spikes	Pkt. 15c
Giant Old Rose (Belle of Naples)	Pkt. 15c
Giant Chamois and Rose (Golden Sheaf)	Pkt. 15c
Giant Light Blue (Cote d'Azur)	Pkt. 15c
Giant Canary Yellow (Monte Carlo)	Pkt. 15c
Giant White (Mount Blanc)	Pkt. 15c
Giant Flesh Pink (Beauty of Nice)	Pkt. 15c
Giant Dark Blue (Summer Night)	Pkt. 15c
Giant Rosy Lilac (Queen Alexandra)	Pkt. 15c
Giant Crimson King	Pkt. 15c

Collection 42F—One packet each 6 selected separate colors, 75c.

Giant Nice—Finest Mixed. Pkt. 15c, 1/8 oz. 50c.



Tithonia Speciosa

TITHONIA SPECIOSA

(Mexican Sunflower)—Tall growing plant usually grown as annual. Very desirable as background to borders. Flowers are similar to single Dahlias and are a striking orange red color. Sow seed in spring when soil is warm. Pkt. 20c.

A & M VERBENAS

A hardy perennial of trailing habit and one of the finest and best known for beds, parkings, etc. The colors are brilliant and varied and the new large flowered strains are handsome as cut flowers. The flowers are fragrant and produced freely throughout most of the year. They will stand much neglect after established, requiring but little water. Plant in seed boxes and transplant to a sunny situation, or may be sown in open ground during warm weather.

Hybrida Mammoth

Golden Queen—Best yellow	Pkt. 10c
Mayflower—Improved pink	Pkt. 10c
Blue—Blue shades	Pkt. 10c
Defiance Scarlet—Bright scarlet	Pkt. 10c
Pink—Pink shades	Pkt. 10c
Purple—Rich color	Pkt. 10c
Yellow—Cream yellow	Pkt. 10c
White—Dense heads	Pkt. 10c
Mixed	Pkt. 10c, 1/2 oz. 50c
Collection 43-F—One packet each of any five of the above named varieties, 35c postpaid.	

New Verbenas

- Beauty of Oxford Hybrid—Brilliant rose color (see page 5 for description). Pkt. 35c.
Fireball—Dwarf compact scarlet Verbena (see page 5 for description, and illustration below). Pkt. 25c.

Hybrida Giants

A new strain of verbenas with the same characteristics as the mammoth except that each flowerlet in the cluster is much larger. This gives the blooming plant a more brilliant effect.

Lavender Glory—True lavender with creamy eye (see page 5 for description)	Pkt. 25c
Carmine Pink—(New.) Very attractive	Pkt. 15c
Etna—Garnet red, deep cream eye	Pkt. 15c
Giant Salmon Pink—Huge tresses	Pkt. 15c
Luminosa—Glowing flame pink	Pkt. 15c
Lucifer Scarlet—No eye	Pkt. 15c
Rosea Stellata—Rose pink with white eye	Pkt. 15c
Violacea Stellata—Deep purple with white eyes	Pkt. 15c
Hybrida Giant Mixed	1/4 oz. 55c, Pkt. 15c

Verbena Venosa

This handsome hardy perennial ranks in the front line as a summer bedding and border plant, and is used extensively for terrace and rock work. Rich rosy purple; 1 foot. Pkt. 15c.

Verbena Erinoides (Moss Verbena)

Produces a mass of spreading foliage and a profusion of purple headed blooms. Much prized in rock gardens as well as for borders and does well in hot locations. Pkt. 10c, 1/4 oz. 30c.

VENIDIUM

Fastuosum—South African plant that thrives in California. Rich orange-yellow, daisy-like flowers, with a large purple-black center (see page 5 for description). Pkt. 25c.

VALERIANA (Garden Heliotrope)

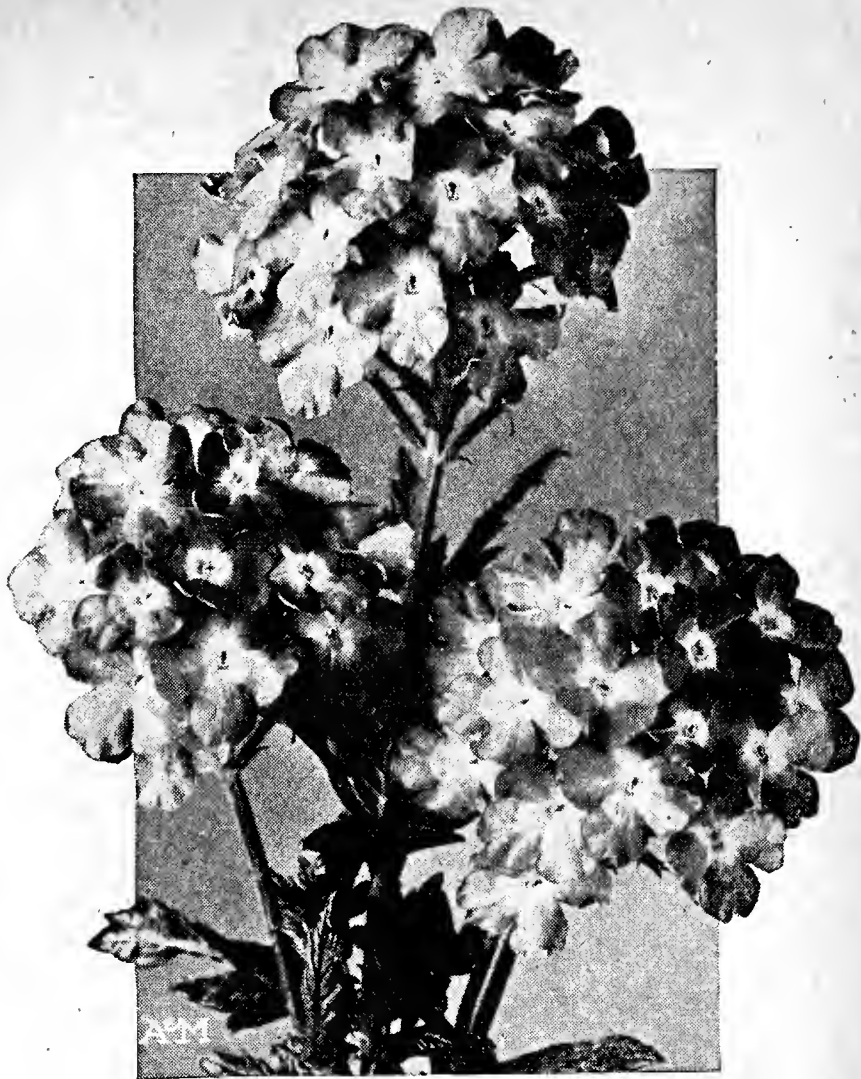
Rubra Mixed—A much prized showy hardy perennial. It bears dense clusters of small heliotrope scented flowers of red or white. Blooms continuously. Pkt. 10c, 1/2 oz. 40c.

VINCA

Rosea (Madagascar Periwinkle)—An attractive and ornamental plant. Very good for bedding and borders. It is free blooming and makes a fine cut flower, all the buds opening in water. It also makes a fine pot plant. Seed may be sown early in spring in seed boxes or in the open ground after danger of frost is over. Flowers are rose, pink and white. Pkt. 10c.



Verbena, Fireball



Verbena, Lavender Glory

VIOLA CORNUTA

"Tufted Pansies"—The flowers are not so large as regular pansies but bloom so freely that for bedding effect they are unsurpassed. The colors are distinct and they also bloom for a long time.

Apricot—True apricot	1/4 oz. \$1.00, Pkt. 25c
Admiration—Violet blue	1/4 oz. 75c, Pkt. 15c
Blue Perfection—Deep bright blue	1/4 oz. 60c, Pkt. 15c
Papilio—Light blue	1/4 oz. 75c, Pkt. 15c
Rose Queen	1/4 oz. 60c, Pkt. 15c
White Perfection	1/4 oz. 60c, Pkt. 15c
Purple	1/4 oz. 85c, Pkt. 15c
Yellow	1/4 oz. 60c, Pkt. 15c
Mauve Queen	1/4 oz. 60c, Pkt. 15c
Mixed	1/4 oz. 60c, Pkt. 10c

VIOLET

Dark blue. Very sweet smelling and probably the most popular of the Violet odorata strain. Pkt. 10c.

VIRGINIAN STOCKS

Very attractive hardy annual, producing a welcome supply of bright colors in the spring and early summer. Largely grown in beds and borders. Height 12 inches. Mixed. Pkt. 10c, oz. 30c.

VISCARIA

Mixed—Exceedingly showy annual suitable for bedding. Produces flowers freely through the summer in colors of blue, white and red. Also useful for cutting. Height 1 ft. Pkt. 10c.

WALLFLOWER

Delightfully fragrant flowers growing in spikes similar to stocks. Annual Single Mixed—A beautiful single variety which flowers during the summer from seed sown in the spring. Pkt. 10c. Perennial Double Mixed—Handsome double flowers. Should be planted in the fall for spring blooming or early in spring for late summer flowers. A fine mixture of colors. Pkt. 15c.

WILD CUCUMBER VINE

One of the most rapid and vigorous climbers we have. It is invaluable for covering unsightly places and fences. Pkt. 10c.

WISTERIA

An extremely graceful climber. For trellis and arbor work no other vine can surpass it. Grows readily from seed but plants do not make rapid growth or bloom until well established. Blue. Pkt. 10c.

XERANTHEMUM

Double Mixed—One of the most attractive and satisfactory everlasting flowers. The flowers are white, purple, yellow and rose and are pretty in the garden or dried. Plant in the open ground in a sunny situation after frost is over. Pkt. 10c.

A & M CALIFORNIA ZINNIAS

There is perhaps no better illustration of the advancement in plant breeding than the glorious Zinnias grown today. From the small flowers of a few years back have been evolved the marvels of size, color, form and wonderful freedom in flowering which is seen in the latest creations. The Zinnia is one of the most satisfactory flowers to grow through the summer. It is extremely colorful, stands considerable heat and has few pests. As a cut flower it is unexcelled.

Zinnias are best grown from seeds sown where the plants are to remain. The seeds are easily sprouted if sown in warm soil. In preparing the soil, irrigate, pulverize and level, sow the seeds in a shallow furrow and firm the soil to them. If the seeds are sown in freshly turned soil, there should be sufficient moisture to sprout them without sprinkling. If sprinkling becomes necessary to sprout the seeds, keep the soil thoroughly moist to prevent surface crusting until the plants are up. A & M Zinnias are the very finest and latest improved selections. Hundreds of customers write to us each year, telling us of the wonderful flowers they have produced from A & M Zinnias.

A & M CALIFORNIA GIANT

(Mammoth Type)

Outstanding as a new strain and the most graceful of the large flowering Zinnias. (See page 5 for description.) Mixed colors. Pkt. 25c, 1/4 oz. 65c, oz. \$1.85.

A & M CALIFORNIA MAMMOTH

Since its introduction a few years ago this type of Zinnia has rapidly gained in popularity. The enormous flowers, often measuring 5 to 6 inches across, are flat and have smaller centers than the Dahlia Flowered strain. The petals are symmetrically formed presenting an extremely graceful appearance. The plants attain a height of 3-4 feet. This is a strictly California introduction.

Cerise Queen—A very bright and striking color of cerise rose. Pkt. 15c.

Enchantress—Light rose with deep rose center. One of the most popular of all Zinnias. Pkt. 15c.

Lavender Gem—Deep lavender purple—a fascinating shade. Pkt. 15c.

Lemon Queen—Bright shade of canary yellow or primrose. Pkt. 15c.

Orange King—Cadmium or rich orange overlaid with scarlet. Pkt. 15c.

Orange Queen—An attractive golden orange. Pkt. 15c.

Purity—One of the best white Zinnias. Pkt. 15c.

Rose Queen—Lovely shade of bright deep rose. Pkt. 15c.

Scarlet Gem—Fine deep glowing scarlet. Pkt. 15c.

Violet Queen—Exquisite deep purple. The flowers are immense and true to type. Pkt. 15c.

Collection 47-F—One packet each of the above ten named varieties, \$1.15.

CALIFORNIA MAMMOTH MIXED—This is specially recommended for cutting purposes. The flowers are beautiful and the stems long. Pkt. 15c, 1/4 oz. 65c.

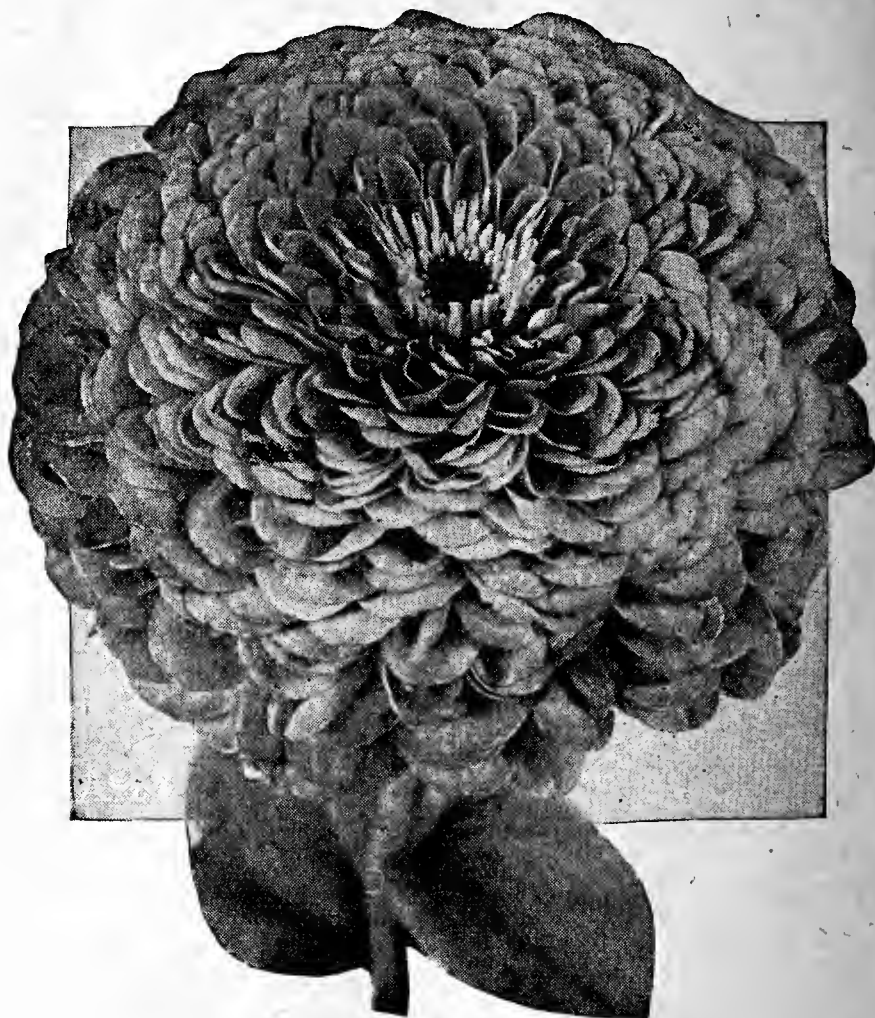
CROWN O' GOLD

This Zinnia is an entirely new selection in color combinations. Each petal of the flower is overlaid with a golden yellow at the base while carrying out the individual color at the tip. The effect is very pleasing and the color combinations are of the soft tones or perhaps they might be called pastel shades. The type of flower and habit of growth are similar to the dahlia-flowered Zinnia. Get acquainted with this new Zinnia. Pkt. 25c.

SPECIAL POMONA COLLECTION OF DAHLIA FLOWERED ZINNIAS

Most people who visit the famous Agricultural Fair at Pomona, Calif., carry away with them a mind picture of the glorious Dahlia Flowered Zinnias which are planted around the great buildings each summer and which are an outstanding attraction during the ten days of the Fair in September. You too can have the same success by planting the identical strain of seed. We offer in the Special Pomona Collection one packet each of six of the most picturesque colors packed in a beautiful lithograph package.

1 Collection of Six Separate Colors for 65c



A & M Dahlia Flowered

A & M DAHLIA FLOWERED

The large size, fullness of petals, fine color range and good keeping qualities have all contributed to the popularity of this strain. The flowers resemble in appearance the Decorative Dahlia and for this reason it is called the Dahlia Flowered Zinnia. When in full bloom they often measure 5-6 inches in diameter.

Canary Bird —Delicate primrose	Pkt. 15c
Crimson Monarch —Bright crimson	Pkt. 15c
Dream —Deep lavender purple	Pkt. 15c
Exquisite —Bright rose with deeper center	Pkt. 15c
Golden Dawn —Bright golden yellow	Pkt. 15c
Golden State —Rich orange	Pkt. 15c
Illumination —Deep soft rose	Pkt. 15c
Luminosa —Bright rose	Pkt. 15c
Meteor —Glowing deep red	Pkt. 15c
Oriole —Orange and gold	Pkt. 15c
Polar Bear —Pure white	Pkt. 15c
Purple Prince —Fine deep purple	Pkt. 15c
Scarlet Flame —Beautiful bright scarlet	Pkt. 15c

Collection No. 39-F—One packet each of ten selected varieties of Dahlia Flowered Zinnia, for a glorious display, \$1.15.

SPECIAL DAHLIA FLOWERED MIXTURE—This mixture contains all of the Zinnia novelties and is a most wonderful collection. It will make an excellent garden show and produce fine flowers for cutting. Pkt. 15c, 1/4 oz. 65c.

DAHLIA FLOWERED RADIANT MIXTURE—An excellent selection of this beautiful type of Zinnia, particularly recommended where larger plantings are required. A splendid range of colors. Pkt. 10c, 1/4 oz. 45c, oz. \$1.25.



A & M Tom Thumb

A & M TOM THUMB

The compact plants of this dainty strain are 6-8 inches high and are covered with well-formed flowers of the Lilliput type. There is a complete range of Zinnia colors in this mixture. Excellent for pot use, for borders or for mass planting. Pkt. 15c, 1/4 oz. 65c.

SCABIOSA FLOWERED ZINNIAS

A new Zinnia much resembling the Scabiosa (see page 5 for description). Mixed colors. Pkt. 25c.

PUMILA PICOTEE DELIGHT ZINNIA

Mixed—New type of Zinnia. The petals are ruffled and curled and a large percentage are gold tipped or picoteed. Splendid for bedding or for cut flower. Height 1 1/2-2 feet. Pkt. 15c.

HAAGAENA

Dwarf, plant carrying small, prettily marked flowers. A variety when better known will have a big demand. Pkt. 15c, 1/4 oz. 35c.

Medium Flowered Zinnia

ELEGANS BEDDING ZINNIA

This variety is the most uniform in size of flower and plant. The flowers measure about 2 inches across, have long stems and for bouquets and vase work are both graceful and attractive. Height 2 feet.

Canary Yellow—Bright primrose	Pkt. 10c
Crimson—Glowing deep red	Pkt. 10c
Fireball—Orange scarlet	Pkt. 10c
Flesh Pink—Soft pale pink	Pkt. 10c
Snowball—Pure white	Pkt. 10c
Salmon Rose—Beautiful shade	Pkt. 10c
Scarlet—Bright color	Pkt. 10c
Violet—Attractive shade	Pkt. 10c
Golden Yellow—Deep yellow	Pkt. 10c
Dwarf Mixed	Pkt. 10c, 1/2 oz. 30c

I had five dollars worth of Zinnia seed (Dahlia Flowered) from you four months ago and in my thirty-eight years in growing Zinnias I never had the equal of yours. They are grand in color and size of bloom.—A. T. H., St. Petersburg, Fla.

Small Flowered Zinnias A & M LILLIPUT OR POM PON

If you have room for two rows of Zinnias, sow the seeds of the Dahlia-Flowered or California Mammoth in the background, and Lilliput Pompon in the front row. This makes a charming combination and will give a greater variety of flowers for cutting purposes. Pompon Zinnias are easily grown and the flowers compare favorably with the Pompon dahlia. If you plant more than one color, Salmon Rose should predominate. This variety is very popular among commercial growers for cut flowers. Grows 2 feet high.

Canary Yellow—Primrose yellow	Pkt. 15c
Crimson Gem—Dark crimson	Pkt. 15c
Golden Gem—Golden yellow	Pkt. 15c
Purple—Deep purple	Pkt. 15c
Salmon Rose—Florists favorite	Pkt. 15c
Scarlet Gem (Red Ridinghood)—Bright red	Pkt. 15c
White Gem—Pure white	Pkt. 15c
Pom Pon Mixed—Containing all the colors	Pkt. 15c
	1/4 oz.—35c

Collection 50-F—One packet each of four varieties, 45c.



A & M Lilliput Zinnias

A & M CALIFORNIA WILD FLOWER MIXTURE

A splendid mixture of true California annual wild flowers so blended as to give a succession of bloom from early spring to mid-summer. All colors may be found in this mixture. For best results the seed should be sown in a prepared seed bed. They may be planted from fall to early spring—a longer bloom resulting from the fall planting. If you have a piece of ground you cannot irrigate, or have not time to give particular attention, yet you want to have something beautiful instead of unsightly weeds, we advise you to plant our Wild Flower Mixture. Five pounds of seed is sufficient to plant an acre.

A & M California Wildflower Mixture—A fine mixture of many species. Pkt. 10c, Jumbo Pkt. 20c, oz. 45c, 1/4 lb. \$1.65, lb. \$5.00.

TREE AND SHRUB SEEDS

Most tree seeds should be planted during the winter and early spring months. Pine and Conifer seeds in March and April. Sow in boxes of well drained soil and keep in a protected place. A lath house is the best. Water in the morning to prevent seedlings from "damping off." When about two inches high, pot up and grow in pots until large enough to set out.

ACACIA—Soak seed in hot water 12 hours before planting.

A. Baileyana—30 ft. The most popular. A fast grower with glaucous green foliage. Pkt. 15c, oz. 75c.

A. Cultiformis—"Knife-leaved" Acacia. A fine shrub with glaucous green leaves. Height 15 ft. Pkt. 15c, oz. 75c.

A. Dealbata—40 ft. "Silver Wattle" finely cut foliage. Good for street planting. Pkt. 10c, oz. 60c.

A. Decurrens—50 ft., "Green Wattle." A rapid grower. Can be used as wind-break and is valuable for turner's work. Is rich in tannin. Pkt. 10c, oz. 75c.

A. Floribunda—30 ft. A pretty tree of pendulous habit, quick growth and constantly in bloom. Pkt. 15c, oz. 60c.

A. Latifolia—30 ft. "Golden Wattle." Ornamental; leaves long and rather broad. Pkt. 10c, oz. 60c.

A. (Albizzia) Lophantha—30 ft., "Crested Wattle." Rapid grower. Grows in poor soil. Pkt. 10c, oz. 35c.

A. Melanoxylon—75 ft. A compact tree useful for street planting. Wood used in cabinet work. Pkt. 10c, oz. 75c.

A. Podalyriaefolia—Beautiful shrub with masses of flowers. Pkt. 25c, oz. \$1.00.

A. Pruinos—25 feet. Drooping form with finely cut foliage. Yellow flowers in large racemes. Pkt. 25c, oz. 75c.

A. Saligna—Handsome glaucous green, pendulous tree. Hardy and drought resistant. Flowers very beautiful for cutting. Pkt. 15c, oz. 60c.

A. Verticillata—A low growing variety with narrow, needle-like leaves. Suitable for hedges. Covered in spring with golden flowers. Pkt. 25c, oz. \$1.00.

A. (Albizzia) Julibrissen—(Silk Tree) Beautiful Shade Tree with fern-like foliage. Covered in summer with feathery pink blossoms. Pkt. 10c, oz. 50c.

ARALIA PAPYRIFERA—(Rice Paper plant)—A desirable plant for tropical effects. Huge lobed leaves and umbels of white flowers make it a very valuable plant in landscape work. Pkt. 25c.

ARALIA SIEBOLDII (Fatsia Japonica)—Shrub with large glossy fig-like leaves and clusters of small white flowers followed by small black berries. Pkt. 25c.

ARBUTUS UNEDO (Strawberry Tree)—10 feet tall. Dark green foliage, similar to California Holly. Small white bell-shaped flowers followed by red strawberry-like fruits, in December. Pkt. 10c, oz. 60c.

ARCTOSTAPHYLOS GLAUCA—Giant berried Manzanita. Very good shrub for dry situations. The branches are red-barked with attractive glaucous foliage. White flowers. Pkt. 10c.

BAUHINIA PURPUREA (Mountain Ebony or Orchid Tree)—A rare and beautiful evergreen tree of medium size. Flowers are huge and range from white to purple. Pkt. 15c.

BERBERIS AQUIFOLIUM (Oregon Grape)—Graceful, ornamental shrub with beautiful holly-like foliage and racemes of golden yellow flowers, followed by purple berries. Pkt. 15c, oz. 75c.

BERBERIS DARWINII—Very ornamental dwarf shrub with small holly-like foliage which turns red in winter. Saffron yellow flowers followed by purple berries. Pkt. 25c.

CALLISTEMON RIGIDUS ("Bottle Brush")—A graceful tree or large shrub with drooping branchlets. The leaves are narrow, pointed and rigid. Flowers in bottle brush like spikes of deep red. Pkt. 15c, 1/4 oz. 50c.

CAMPHORA OFFICINALIS—"Camphor Tree," 30 ft. An ornamental and attractive tree with shiny green foliage. Pkt. 10c, oz. 45c.

CARPENTERIA CALIFORNICA—Handsome native California plant. It is about 6 feet high and is covered with beautiful large fragrant flowers 3 inches across. Pkt. 25c.

CASSIA ARTEMISIOIDES—Shrub. Soft, gray-green, finely-cut foliage. Deep yellow, sweet scented flowers. Stands drought. May be used for hedges. Pkt. 15c, oz. \$1.25.

CASSIA TOMENTOSA—A quick growing shrub with yellow flowers in winter. Drought resistant. Pkt. 15c, oz. 50c.

CASSIA NAIROBENSIS—Leaves are much larger than Tomentosa. Large heads of deep yellow flowers. Grows rapidly. Pkt. 25c.

CASUARINA STRICTA (She Oak)—Slender graceful tree resembling a pine. Grows rapidly and resists drought and extremes of heat and cold. Fine for parkings. Pkt. 15c, oz. \$1.00.

CEANOTHUS ARBOREUS—A large shrub 8-15 feet tall, bearing fine trusses of rich deep blue fragrant flowers. Pkt. 15c.

CEANOTHUS CYANEUS—Splendid shrub with dark blue flowers which appear late in spring. Makes a good hedge. Pkt. 25c.



Eucalyptus Ficifolia

CEANOTHUS SPINOSUS—The most rapid growing of the California lilacs. Light blue flowers in clusters. Very hardy. 20 feet. Pkt. 10c, oz. 75c.

CEDRUS DEODARA—A beautiful evergreen of silvery green foliage, pyramidal form and drooping branches. Pkt. 25c, oz. 85c.

CERATONIA SILIQUA—"St. John's Bread" or "Carob Tree." A very ornamental compact growing tree. Thrives in any soil and will withstand drought. Pkt. 10c, oz. 30c.

CHAMAECYPARIS LAWSONIANA (Lawson Cypress)—One of the most stately of all evergreen trees. Horizontal pendulous branches and flat foliage of soft gray color. Hardy except in dry interior. Pkt. 15c, oz. 60c.

CHERIMOYA—Fine sub-tropical tree which grows to 20 feet, bearing small green fruit of delicious flavor. Will stand 5 or 6 degrees of frost. Pkt. 25c.

CHORIZEMA ILICIFOLIA—A spreading shrub with holly-like foliage, small pea-shaped orange-scarlet flowers. Bloom in winter, early spring. 100 seeds 30c.

COPROSMA BAUERI—A very popular low-growing shrub with round, glossy, bright green leaves used a great deal in mass against porches and walls. Pkt. 15c, oz. \$1.00.

CORONILLA GLAUCA—A small evergreen shrub with glaucous foliage and yellow pea shaped flowers borne during late winter. Pkt. 10c, oz. \$1.00.

COTONEASTER ANGUSTIFOLIA (Pyracantha angustifolia)—Spreading shrub 10 feet. Bears orange yellow berries in abundance throughout the winter. Pkt. 15c, oz. \$1.00.

COTONEASTER FRANCHETTI—Handsome 5 ft. shrub. Pink flowers followed by orange red berries. Pkt. 10c, oz. \$1.

COTONEASTER PANNOSA—Shrub of upright growth, small branches drooping. Leaves green above, silvery beneath. White flowers followed by red berries in the fall. Pkt. 10c, oz. 85c.

CRATAEGUS CRENULATA—A thorny shrub; small leaves, red berries. Pkt. 10c.

CRATAEGUS YUNNANENSIS—A low-growing variety coming from Japan. The berries are very bright red and borne in great abundance. A handsome, rare variety. Pkt. 10c.

CRYPTOMERIA ELEGANS—"Fine leaved Japan Cedar." Fine foliage which turns red in the winter. A beautiful tree for the lawn. Pkt. 15c, oz. 60c.

CUPRESSUS MACROCARPA—"Monte-rey Cypress," 75 ft. Native of California. Extensively used for hedges and windbreaks. Pkt. 10c, oz. 50c.

C. SEMPERVIRENS—Var. Fastigiata "Italian Cypress." A narrow tapering tree. Used in landscape gardening. Pkt. 10c, oz. 75c.

C. ARIZONICA ("Arizona Cypress")—One of the best cypresses, with a bluish cast. Has a slender, upright growth and will thrive in almost any soil, standing both heat and cold. Pkt. 10c, oz. 75c.

CYDONIA JAPONICA SANGUINEA (Scarlet Flowering Quince)—Beautiful deciduous shrub bearing a profusion of scarlet flowers. Pkt. 15c, oz. \$1.00.

DIOSMA ERICOIDES (Breath of Heaven)—Small shrub with fine heather-like foliage and dainty fragrant white flowers. Pkt. 15c, 1000 seeds \$2.50.

DURANTA PLUMIERI (Golden Dewdrop)—Tall rapid growing shrub with lavender-blue flowers in terminal clusters, followed by yellow berries. Drought resistant. Pkt. 10c, oz. 65c.

ERYTHRINA CHRISTA-GALLI (Coral Tree)—Showy and beautiful shrub or small tree producing many butterfly-like flowers of a brilliant crimson shade. Pkt. 15c, oz. \$1.00.

EUCALYPTUS

Should be sown in June or July in thoroughly prepared seed boxes. The beds should be kept moist at all times and watered only with a very fine spray. When seedlings appear water only in the morning to prevent damping off. The seedlings should be transplanted when 2 or 3 inches high, to other boxes or small pots, and should be ready to set out in February and March. One pound produces about 22,000 seedlings.

E. Citriodora (Lemon Gum)—Tall slender tree with clean gray bark and lemon scented foliage. Rapid growing and drought resistant. Pkt. 25c, oz. \$1.50.

E. Corynocalyx—"Sugar Gum," 100 ft. This variety is the most drought resistant of all, but will not stand much frost. Wood hard. Pkt. 15c, oz. \$1.00.

E. Ficifolia—"Scarlet Flowering Gum." The best of the red flowering varieties. 25 seeds 25c.

TREE AND SHRUB SEEDS—Continued.

- E. Globulus**—"Blue Gum." Most rapid grower and best known species. Grows well along coast. Wood is durable and also good fuel. A profitable tree to grow. Pkt. 15c, oz. \$1.25.
- E. Robusta** (Swamp Mahogany)—Large glossy green leaves with creamy white flowers. Height 100 feet. Does best in moist situations and useful for wind-breaks. Pkt. 15c, oz. 75c.
- E. Rostrata**—"Red Gum." A very tall variety. Withstands extremes of heat and cold. Grows most quickly in the hot sections. Is durable and useful for cabinet work. Pkt. 15c, oz. 75c.
- E. Rudis**—"Desert Gum." Very valuable for hot arid sections. Wood durable. Good for street planting. Pkt. 15c, oz. \$1.00.
- E. Sideroxylon Rosea** (Red Ironbark)—One of the most beautiful of all Eucalypti. Adapted to any location and bearing masses of delicate pink flowers which contrast with the dense silvery gray foliage. Pkt. 25c, oz. \$1.25.
- E. Tereticornis** (Forest Red Gum)—Height 150 feet. Beautiful tree and very hardy and drought resistant. Pkt. 15c, oz. 75c.
- E. Viminalis**—"Manna Gum." A hardy rapid growing variety well suited to exposed situations. The wood is softer than some, but is easier to work and takes a fine polish. Pkt. 15c, oz. \$1.00.
- EUGENIA HOOKERI** (Brush Cherry)—Handsome shrub with purple berries. 15 feet. Easily trimmed into formal shapes. 25 seeds 15c, 100 seeds 45c.
- EUGENIA MYRTIFOLIA**—This handsome plant is usually trained into pillar or pyramid shape and is also used for hedges. Very attractive greeny-bronze, glossy foliage. 25 seeds 15c, 100 seeds 45c.
- FEIJOA SELLOWIANA** or **PINEAPPLE GUAVA**—An attractive evergreen shrub with glaucous foliage and purplish red waxy flowers. The delicious fruit may be eaten raw or cooked. Pkt. 15c.
- FRAXINUS VELUTINA** (Arizona Ash)—Rapid growing tree for planting in hot dry locations. Will grow on alkaline soils. Pkt. 10c, oz. 50c.
- FREMONTIA MEXICANA**—Wonderful shrub for hot, dry sections. Leathery dark green foliage with deep orange flowers—3 to 4 inches across. Pkt. 25c.
- GENISTA CANARIENSIS** (Canary Broom)—Free flowering shrub. 6 to 8 feet. Bright yellow flowers in great profusion. Pkt. 15c, oz. 75c.
- GENISTA FRAGRANS**—A pretty shrub, compact in growth, covered in the spring with yellow flowers. Pkt. 15c.
- GENISTA MONOSPERMA PENDULA** (Bridal Veil Broom)—Rare shrub growing 10-15 feet. Silver grey needle-like foliage and white flowers. Very beautiful subject. Pkt. 15c.
- GENISTA MULTIFLORA ALBA**—Portuguese white broom. Pkt. 10c, oz. \$1.00.
- GREVILLEA BANKSII**—Bushy shrub, 6 to 8 feet. Attractive fern-like leaves and erect clusters of crimson flowers. Pkt. 25c.
- GREVILLEA ROBUSTA**—"Silky Oak." A pretty tree with fern-like foliage. Orange colored flowers. Rapid grower; withstands drought. Pkt. 15c, oz. \$1.00.
- GUAVA STRAWBERRY** (Psidium Cattleianum)—Fine glossy-leaved shrub producing an abundance of luscious fruit the size of a large strawberry. Pkt. 15c, oz. 75c.
- GUAVA LEMON** (Psidium Guajava)—Large yellow fruits. Plant is tender against frost. Pkt. 15c, oz. \$1.00.
- HAKEA LAURINA**—Tall compact shrub with hard stiff leaves. Showy scarlet globe shaped flowers. Pkt. 15c.
- HAKEA SALIGNA** (Willow Acacia)—Similar to preceding with small white flowers. Pkt. 15c.
- HARDENBERGIA OVATA BLUE**—Useful, quick growing shrub with wisteria-like flowers in late spring and early summer. Bright blue flowers. Pkt. 10c.
- HARDENBERGIA OVATA MIXED**—Blue and white mixed. Pkt. 10c.
- JACARANDA MIMOSAEFOLIA**—30 feet. A fine tree with fernlike foliage, bearing clusters of light blue flowers. Pod contains 30 or 40 seeds. 5c. a pod.
- JUNIPERUS VIRGINIANA**—Red Cedar. 60 feet. A handsome well known tree. Pkt. 10c, oz. 60c.
- LAGUNARIA PATERSONII**—Small pyramidal tree with oval leaves and pale rose flowers similar to Hibiscus. Pkt. 15c, oz. \$1.00.
- LEPTOSPERMUM LAEVIGATUM**—A rapid-growing shrub of drooping, graceful habit, succeeding well in California. Foliage grayish green and white flowers borne in great profusion. An evergreen. Pkt. 25c.
- LIBOCEDRUS DECURRENS**—100 feet. "Incense Cedar." A fine native tree of compact growth green foliage and red bark. Pkt. 15c, oz. \$1.00.
- LIGUSTRUM NEPALENSE**—"Small Leaved Privet." An evergreen shrub much used for hedges. Makes a thick, dense hedge, easily trimmed. Pkt. 10c, oz. 50c, 1/4 lb. \$1.50.
- LIGUSTRUM JAPONICUM**—"Japanese Privet." A large shrub with thick, dark green leaves. Much used for hedges. Pkt. 10c, oz. 50c, 1/4 lb. \$1.50.
- LOQUAT LARGE FRUITING**—A medium sized tree with large glossy leaves. The yellow fruit are borne in large clusters. Pkt. 10c, oz. 25c.
- MAGNOLIA GRANDIFLORA**—Beautiful tree for street planting. Grows 50-80 feet tall. Has thick glossy leaves and waxy white fragrant flowers. Requires abundance of water. Pkt. 10c, oz. 25c.
- MELIA UMBRACULIFORMIS**—"Texas Umbrella Tree." Deciduous. A well known shade tree. Withstands heat. Pkt. 10c, oz. 25c.
- MELALEUCA ARMILLARIS**—"Bottle Brush." A large-growing shrub of graceful drooping habit. Leaves are dense and needle like. Flower clusters white, cylindric in form and about 2 inches long. Is hardy and is generally planted in shrubbery borders. Pkt. 15c.
- MELALEUCA HUEGELII**—Erect shrub, 6-15 feet. Tiny pointed scale-like leaves of greyish green. The long terminal spikes of pinkish buds open to fuzzy white flowers. Pkt. 25c.
- MELALEUCA HYPERICIFOLIA**—"Bottle Brush." A tall-growing shrub, bright green opposite leaves. Flower clusters a rich red. Very showy and one of the best. Pkt. 15c.
- MELALEUCA NESOPHYLLA**—"Bottle Brush." Similar to the above but more rapid growing. Flowers soft lavender pink. Pkt. 15c.
- METROSIDROS TOMENTOSA**—Handsome New Zealand shrub. The thick leaves are green on top and white beneath. Large dark crimson flowers. Pkt. 25c.
- MYRTUS COMMUNIS**—Handsome evergreen shrub growing 3 to 10 feet or more. Strongly scented. Bears a blue black berry. Pkt. 15c, oz. \$1.00.
- MYRTUS MICROPHYLLA COMPACTA**—Compact form of the very popular small leaves myrtle. Very desirable. Pkt. 25c.
- NANDINA DOMESTICA**—One of the most valuable shrubs for California. Erect growing with bamboo-like stems. Loose clusters of white flowers are followed by handsome red berries. Pkt. 10c, oz. 50c.
- PAPAYA**—Delicious tropical fruit which will grow in frostless locations in California. It requires much sun and plenty of water. The plants have large leaves borne at the top of a straight trunk and shade the melon-like fruit which hang just below. Pkt. 25c.
- PARKINSONIA ACULEATA** (Jerusalem Thorn)—Excellent tree for desert conditions. 20 feet. Bright yellow flowers. Attractive to bees. Pkt. 15c, oz. 50c.
- PHORMIUM TENAX ATROPURPUREA**—Makes very bold lawn clumps; reddish purple ribbon-like foliage. Pkt. 25c.
- PHORMIUM TENAX VARIEGATUM**—Leaves are strongly marked with yellow bands. Pkt. 10c.
- PHOTINIA ARBUTIFOLIA** ("California Holly")—A native shrub of California, growing well along the coast or in the hot interior. A decorative plant, especially during the winter when covered with the deep red clusters of berries. Pkt. 10c, oz. 40c, lb. \$4.00.
- PINUS CANARIENSIS**—"Canary Island Pine." A fast growing, robust tree, standing drought well. The foliage is a beautiful glaucous blue color. Pkt. 15c, oz. 75c.
- PINUS HALEPENSIS**—"Aleppo Pine." Recommended for seaside planting. Trunk slender and destitute of branches for a considerable height when full grown. 60 feet. Pkt. 25c, oz. 75c.
- PINUS INSIGNIS**—"Monterey Pine." Native of California, growing well near the coast. Pkt. 15c, oz. 90c.
- PINUS PINEA** (Stone Pine)—Picturesque tree growing 80 feet high with long spreading branches. Rapid grower. Pkt. 10c, oz. 30c.
- PITTOSPORUM EUGENOIDES**—A large shrub or small tree. Handsome light green leaves and dark stems. Used for specimen plants or hedges. Pkt. 15c.
- PITTOSPORUM NIGRICANS**—Upright growing shrub with small green leaves and very dark stems. Pkt. 15c.
- PITTOSPORUM RHOMBIFOLIUM**—Ht. 20 feet. A handsome ornamental tree much used for street planting. Flowers white and followed by orange berries lasting during the winter. Pkt. 25c.
- PITTOSPORUM TOBIRA**—A low-growing shrub with dark green leaves and fragrant pure white flowers. Pkt. 15c.
- PITTOSPORUM UNDULATUM**—(Wavy leaved.) Height 10 feet. A shrub or small tree which may also be used for hedges. Deep green, glossy leaves. Flowers fragrant at night. Pkt. 15c.
- PITTOSPORUM VIVIDIFLORUM**—A shrub with shiny green leaves and green flowers followed by yellow berries during the fall. Fast growing. Pkt. 25c.
- PLUMBAGO CAPENSIS**—A spreading shrub with clean, smooth, light green foliage. Flowers pale blue, phlox-like in shape. Free flowering. Pkt. 15c.
- POMEGRANATE, DWARF**—Small branching shrub 2 to 3 feet. Small bright scarlet flowers, producing miniature red fruit. Fine for pot plant. Pkt. 15c, oz. \$1.50.
- PRUNUS CAROLINIANA** (Carolina Cherry)—Excellent glossy leaved evergreen. 16 feet. Does best near coast. Pkt. 10c, oz. 25c, lb. \$2.50.
- PRUNUS ILICIFOLIA** (California Cherry)—A bush or small evergreen tree, very ornamental with shiny, green holly-like foliage. The flowers grow in racemes and are followed by large, red cherries. A native of California. Pkt. 10c, oz. 25c, lb. \$2.50.
- PRUNUS INTEGIFOLIA** (Catalina Cherry)—A native of Catalina Islands. Similar to the preceding but the leaves are larger and less spiny and the fruit larger. Pkt. 10c, oz. 25c, lb. \$2.50.
- QUERCUS AGRIFOLIA** (California Live Oak)—Magnificent dark green native oak. Oz. 20c, lb. \$1.75.
- QUERCUS SUBER** (Cork Oak)—Splendid evergreen oak about 50 feet high. The spongy bark is the source of commercial cork. Oz. 20c, lb. \$1.75.
- RAPHIOLEPSIS JAPONICA**—Compact dwarf shrub 2 1/2 to 4 feet. White flowers followed by blue grape-like berries in the autumn. Hardy. Oz. 30c, lb. \$3.00.
- RHAMNUS CALIFORNICA** (Wild Coffee)—Attractive dense shrub with glossy green leaves. Flowers creamy-white, followed by large berries in shades of yellow to purple. Oz. 40c, lb. \$4.00.
- RHAMNUS ILICIFOLIUM**—Leaves similar to English holly. Small creamy-white flowers followed by bright red berries. Pkt. 10c, oz. 50c.
- ROBINIA PSEUDACACIA** (Black Locust)—A deciduous tree of rapid growth. Drought resistant and much used in arid sections for shade. Handsome foliage. Pkt. 10c, oz. 30c.
- SCHINUS MOLLE**—"Pepper Tree." A graceful well known tree with fine foliage and red berries. Pkt. 10c, oz. 25c.
- SEQUOIA SEMPERVIRENS**—"California Redwood." A fast growing native tree with reddish colored wood. Ornamental. Pkt. 15c, oz. 75c.
- SOLLYA HETEROPHYLLA**—"Australian Blue Bell." A hardy evergreen climber or may be used as a spreading shrub producing many brilliant blue bell shaped flowers. Will grow in partial shade. Pkt. 15c.

TREE AND SHRUB SEEDS—Continued

SPARTIUM JUNCEUM—"Spanish Broom." Quick growing shrub reaching a height of 10 ft. Yellow pea-shaped flowers. Pkt. 15c.

SPARTIUM SCOPARIUM—"Scotch Broom." Dense growing shrub bearing yellow pea-like flowers. Pkt. 15c.

STERCULIA DIVERSIFOLIA—"Victorian Bottle Tree." A fine tree for street planting. Glossy green foliage which varies in shape. Pkt. 15c, oz. 50c.

STERCULIA ACERFOLIA—"Flame Tree." Very showy tree for street planting. Trusses of brilliant scarlet flowers. Pkt. 15c, oz. 60c.

THUYA ORIENTALIS—"Chinese Arbor Vitae." A small growing tree. Bright green flattened foliage. Pkt. 10c, oz. 60c.

THUYA ORIENTALIS AUREA—"Golden Arborvitae." Similar to the above. The foliage beautifully tinged with gold in the spring. Pkt. 10c, oz. 75c.

UMBELLULARIA CALIFORNICA (California Mountain Laurel)—Beautiful native tree, 25 feet. The long narrow dark green leaves are fragrant when crushed. Oz. 15c, lb. \$1.50.

VERONICA DECUSSATA BLUE—Compact evergreen shrub 18 in. to 2 ft. tall. Useful for shrubbery borders. Sky blue flowers. Pkt. 25c.

VIBURNUM TINUS (Laurustinus)—Well known winter flowering shrub bearing clusters of small pinkish blooms. Good for hedges or mass planting. Pkt. 10c, oz. 30c.

YUCCA WHIPPLEI (Spanish Bayonet)—One of the best Yuccas. The flower stalk rises 10-15 feet with innumerable waxy white flowers. Pkt. 10c, oz. 50c.

PALM SEEDS

All varieties may be sown in the open ground in mild climates except Cocos Palms. These latter require artificial heat. Some germinate quickly, others take as long as six months. Palms grow best in a well drained sandy loam.

CHAMAEROPS EXCELSA—"Windmill Palm." Leaves fan shaped, and deeply cut. The hardest palm we have, a fine lawn palm. Oz. 30c, lb. \$3.00.

COCOS AUSTRALIS—"Pindo Palm." A very ornamental palm with glaucous green leaves. Quite hardy. 10 seeds 15c, 100 for 75c.

COCOS PLUMOSA—A tall graceful palm, a rapid grower and a splendid variety for street planting. 10 seeds 20c, 100 seeds \$1.25.

DRACAENA AUSTRALIS—Cultivated for the ornamental foliage. Planted in the open in California. Pkt. 15c, oz. 75c.

DRACAENA INDIVISA—Similar to above but grows more rapidly. Pkt. 15c, oz. 60c.

ERYTHEA EDULIS—"Guadalupe Palm." 30 ft. A rapid growing variety. Fan shaped leaves of dark green. 10 seeds 15c, 100 seeds \$1.00.

ERYTHEA ARMATA—"Blue Fan Palm." A slow growing hardy palm, fine for lawns. Leaves a glaucous blue. 10 seeds 15c, 100 seeds \$1.20.

PHOENIX RECLINATA—A graceful palm large and withstands cold. 10 seeds 15c, 100 seeds \$1.00.

P. CANARIENSIS—"Canary Island Palm." The most graceful and the handsomest of our hardy palms. Leaves pinnate and a green color. One of the most effective for lawn planting. 10 seeds 10c, 100 seeds 50c.

SEAFORTHIA ELEGANS—One of the most beautiful for conservatory or protected gardens. Quite hardy. 10 seeds 15c, 100 seeds \$1.00.

WASHINGTON FILIFERA—The well known California Fan Palm. Grows 60 to 80 feet. Oz. 15c, lb. \$1.50.

WASHINGTON ROBUSTA—A hardy Fan Palm. Leaves dark green without any threads. Pkt. 10c, oz. 30c.



Phoenix Canariensis Palm

Flowering Bulbs

Begonia
(Tuberous Rooted)

These are very satisfactory as summer bloomers. For outside beds, plant in a shaded location, covering the bulbs about one-half inch deep. Water lightly until growth starts. After the foliage has died down in the fall, lift them and store in dry sand. Tuberous Begonias make very good pot plants. Use a five-inch pot for each bulb filled with rich sandy loam and give the plants light but not direct sun. No bulb is more satisfactory for pot culture.

Single Begonias

Single Rose 20c each, \$2.25 dozen
Single Scarlet 20c each, 2.25 dozen
Single Yellow 20c each, 2.25 dozen
Single Salmon 20c each, 2.25 dozen

(Collection—one each of the above four colors for 70c postpaid)

Double Begonias

Double Rose 25c each, \$2.50 dozen
Double Crimson 25c each, 2.50 dozen
Double Yellow 25c each, 2.50 dozen
Double Scarlet 25c each, 2.50 dozen
Double Salmon 25c each, 2.50 dozen
Double Pink 25c each, 2.50 dozen
Double Orange 25c each, 2.50 dozen
Double White 25c each, 2.50 dozen

(Collection—one each of the above eight colors for \$1.65 postpaid)

Double Crested Mixed, 3 for 70c, \$2.50 doz.
Double Frilled Mixed, 3 for 70c, \$2.50 doz.
Lloydii or Hanging Basket, Mixed Colors—25c each, \$2.50 doz.

Narcissus Flowered Mixed — The male flower resembles the Trumpet Daffodil. 25c each, \$2.50 doz.

MONTBRETIAS

Montbretias are so easily grown and the results ordinarily obtained so gratifying that we take great pleasure in recommending them to our customers. Plant during December, January, February and March and they will produce flowers during July and August. They are nearly evergreen and make wonderful cut flowers. Each bulb produces several fine spikes of flowers 20 to 36 inches in height. Use the same culture as for Gladioli. Scarlet and orange shades predominate. Giant Flowered Mixed, 3 for 25c, 85c per dozen, postpaid.

ZEPHYRANTHES

(Fairy Lilies)

Candida—Beautiful white flowers and attractive foliage, making it a very desirable plant for borders and beds. Height about 1 foot. Long blooming season. Bulbs multiply rapidly. 50c dozen, 100 for \$4.00.

Rosea—A beautiful variety with rose-colored flowers. 75c doz., 100 for \$5.50.

TIGRIDIA PAVONIA

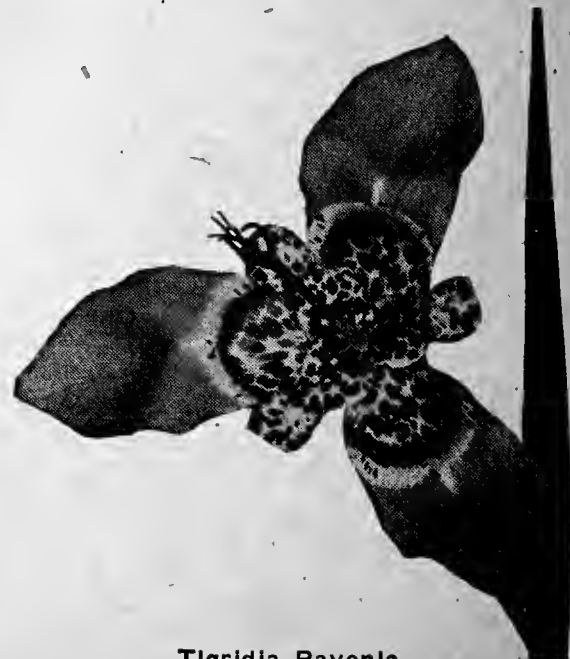
(Shell Lily)

Tigridias are closely related to the Iris. They are very attractive and interesting and bloom over a long period. The Pavonia variety is a bright scarlet spotted with orange. Bulbs should not be planted until the ground has been warmed up in the spring. 20c each, \$2.00 dozen.

TUBEROSES

(Mexican Everblooming)

The most fragrant of all tuberoses and a wonderful bloomer. Flowers are pure white and clustered from six to a dozen on stiff stems, making them excellent for cut flowers. The bulbs of these multiply from year to year producing great masses which should be separated and transplanted every three years. They are very hardy and will grow and bloom in the warm inland valleys equally as well as on the coast. A dozen bulbs will plant a row six feet long. 10c each, 50c dozen.



Tigridia Pavonia

Cannas

The large, handsome, ornamental foliage and beautiful spikes of bright flowers make the cannas ideal for mass plantings, backgrounds, borders or hedges. They may now be obtained in heights varying from 3 to 6 feet, and in colors of rose, red, orange, to pure white. Also some foliage is bright green and some a rich bronze. These new orchid flowering and large truss varieties bloom freely from six to eight months. In mild climates there are evergreen, but we recommend cutting away the old stalks in the winter to make room for new growth. They should be separated every three years. Set roots 12 to 15 inches apart. They flower more freely in sunny situations but grow well in partial shade, requiring at all times plenty of moisture.



Canna

Red Cannas

The President—Glorious large flowers of a dazzling red color. Unsurpassed in vigor and a free bloomer. Green foliage. Five feet. The finest red canna in cultivation. 15c each, \$1.50 per doz., \$7.00 per 100.

King Humbert—Immense orchid flowers of brilliant orange red often streaked with gold. Sturdy bronze foliage. Four to five feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

Uncle Sam—Deep vivid crimson. One of the largest orchid reds. Green foliage. Five to six feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

Alphonso—Beautiful deep red flower with vigorous dark green foliage. 10c each, \$1.00 per doz., \$6.00 per 100.

Yellow and Orange

Wyoming—Large orchid flowers of pure rich orange. Handsome bronze leaves; four feet. 10c each, \$1.00 per doz., \$6.00 per 100.

Austria—Pure yellow with crimson marking in throat. Green foliage; 4-5 feet. 10c each, \$1.00 per doz., \$6.00 per 100.

Indiana—A bright, vivid orange. Fine shaped flowers in large trusses. Green foliage. Five to six feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

Bronze

Copper Giant—Immense bronze flowers suffused rose. A very fine Canna with unique coloring. Dark green foliage; 4 feet. 25c each, \$2.50 per doz.

Pink and Rose

Rose Glory—Beautiful large salmon-rose flowers, an exquisite color that will be much appreciated. Strong grower, 4 to 5 feet; green foliage. 25c each, \$2.50 per doz.

Hungaria—A fine, clear pink. Flowers large with rounded petals. Dwarf, luxuriant, green foliage. Two to three feet. 10c each, \$1.00 per doz., \$6.00 per 100.

Wabash—Large fine flowers, borne many in a truss, in color salmon-pink. Rich bronze foliage. Height four feet. 10c each, \$1.00 per doz., \$6.00 per 100.

Scarlet and Gold

Duca De Otranto—A very lovely lily-shaped variety of golden orange, which changes to a glowing carmine. An interesting and wonderfully effective canna to grow. Green leaves. Four to five feet high. 10c each, \$1.00 doz., \$6.00 per 100.

Panama—Large flowers with big rounded petals of strong terra cotta red color. The throat and edges of the petals are spotted with golden yellow. Leaves green. 10c each, \$1.00 doz., \$6.00 per 100.

White

Eureka—Full trusses of large flowers, an almost pure white. Very fine grower: green leaves; four to five feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

CANNA COLLECTION—One bulb each Alphonso, Duca De Otranto, King Humbert, Indiana, Wabash and Eureka—six varied colors for 50c postpaid. Two collections for 90c postpaid.

Lilies

Lilium Henryi

Very tall growing lily with fine foliage. When well established it bears more than twenty flowers of deep orange-yellow. Plant 10 inches deep and shelter from wind. 20c each, 6 for \$1.00.

Lilium Rubrum

"Red Japan Lily"—Flowers white, shaded and spotted with crimson, very fragrant. One of the best for cut flowers as the flowers do not all open at once. 20c each, 6 for \$1.00.

Lilium Speciosum Album

Beautiful snow-white flower with a golden green stripe in the center of the petals and anthers of bronze color. 20c each, 6 for \$1.00.

Lilium Tigrinum Splendens

This is the lovely Tiger Lily bearing handsome orange salmon flowers spotted black. It is a good pot or garden variety, a free bloomer, and grows very tall. 20c each, 6 for \$1.00.

"I have only one acre of garden land but I always use Aggeler & Mussey seeds because the seeds are so true—one can depend on every seed."—Mrs. Elizabeth Foster, Sturtevant, Wisconsin.



Lilium Auratum

Lilies should be planted eight to ten inches deep in soil which has been mixed with well rotted manure and sand, and they should not be disturbed. If planted in pots, observe same conditions, only covering to a depth of one inch. The pots should be plunged in soil and not watered until growth appears. On sale January to March.

Lilium Auratum

Gold Banded Lily of Japan—Flowers white, spotted crimson, with pure gold band running through center of each petal. Very fragrant and most beautiful of all Japanese lilies. 20c each, 6 for \$1.00.

Lilium Auratum Platyphyllum

A glorious lily and one of the best in cultivation. The flowers are larger than Auratum but similar in color; the leaves are also larger. Tall growing. 30c each, 6 for \$1.50.

Lilium Hansonii

Very strong growing variety bearing many elegant blooms on each stem. The flowers are a bright golden yellow, spotted brown. 30c each, 6 for \$1.50.

A & M DAHLIAS

ORDER EARLY

Dahlia bulbs are ready for shipment about March 1st. You may include them in your order for seeds and they will be sent when ready. We do not advise ordering these after May 15th.

Our offerings of Dahlias are only those varieties which we have found to be entirely satisfactory to planters in general. There are hundreds of worthless varieties with which the amateur is not familiar, and would consequently have more difficulty in choosing properly if they were included among the listings.

ORDER BY MAIL

City customers are reminded of the convenience of ordering by mail. Seeds and bulbs are delivered direct to your door by the mailman and we pay postage.

DAHLIA CULTURE

A bulletin on Dahlia Culture will be mailed free upon request and will be included with each order of Dahlias.



A & M Decorative Dahlias

A & M DECORATIVE DAHLIAS

The Decorative type of Dahlia is a large double flower, full to the center. Broad, flat petals with broad points or rounded tips. They flower freely on long stems and are a very popular type.

	Each		Each
56 Al Koran—Large flowers with wavy petals or clear bright yellow suffused amber. Vigorous growth and long blooming season .....	.50	123 Mr. Crowley—A bright glowing salmon pink, shading to yellow at the base of petals; the habit is dwarf. The medium size flowers are held erect on strong stems .....	.35
311 Avalon—Large clear yellow .....	.35	125 Mrs. Carl Salbach—Mauve, or lilac pink. A popular variety with long stems, much used for decorative work .....	.35
226 Charm—A pleasing combination of burnt orange shading to a beautiful yellow .....	.50	126 Mrs. I. de Ver Warner—Deep mauve pink. One of the best .....	.35
60 Coryphee—Large flowers of a dazzling scarlet, delightfully overlaid with light orange. A wonderful keeper....	.50	57 Mrs. Theresa DuBois — Bright old rose with petals veined and tipped with gold. Exquisite flowers on exceptionally long stems. Especially good for cutting.....	.35
46 Derril W. Hart Large well formed blooms of deep coppery orange shading to henna brown. Long stiff stems	1.00	52 Postmaster O'Brien — Lovely combination of yellow, salmon and rose. Good stems	1.00
107 Dr. Tevis—A beautiful shade of salmon rose, suffused with old gold shading to a golden apricot. A wonderful dahlia with long, stiff stems.....	.50	65 Princess Aline—A small flower, excellent for cutting. Florists use it freely. Silvery rose pink shading to lighter edge .....	.50
313 Empress Eugenia—Beautiful Rosaline purple .....	.50	67 Queen of the Garden—An outstanding pale lemon yellow dahlia of mammoth size. Without special culture the blooms will come 8-11 inches across and they are well held on unusually strong stems .....	.50
47 Golden Goblin—A really wonderful variety. Brilliant rich old gold flowers on perfect stems	1.00		
62 Gold Rush—Clear lemon yellow flowers borne on tall growing bushes which are very attractive in garden....	.35		

Each

48 Helen Ivins—Large exhibition type in a beautiful orchid lavender shade. Sturdy plant with long stems....

76 Jane Cowl—Immense glistening bronze and old gold. Very graceful flower on good strong stem. An exhibition variety

74 Jean Kerr—Pure white

212 Jersey's Beauty—A very pleasing eosine pink, carried on long and exceptionally strong, wiry stems

83 Jersey's Beacon—Very vigorous, and a free and early bloomer. Brilliant scarlet with buff reflex, giving a beautiful two-tone effect. A very large deep shaggy dahlia with good stems

49 Laguna—Large pure lavender of the formal decorative type. Good stems

64 Lillian Van Marter—One of the most perfect and satisfactory varieties grown. Blooms are a deep lilac on long straight stems

75 Lord Byron—Chrome yellow shading to deeper center. The petals roll back towards the stem. The flowers stand on top of very erect and long stems

50 Monmouth Champion—This dahlia has won many prizes in exhibition. Glistening flaming orange; vigorous growth

51 Mirador—Rose pink with ivory background. Large flowers freely produced

123 Mr. Crowley—A bright glowing salmon pink, shading to yellow at the base of petals; the habit is dwarf. The medium size flowers are held erect on strong stems

125 Mrs. Carl Salbach—Mauve, or lilac pink. A popular variety with long stems, much used for decorative work

126 Mrs. I. de Ver Warner—Deep mauve pink. One of the best

57 Mrs. Theresa DuBois — Bright old rose with petals veined and tipped with gold. Exquisite flowers on exceptionally long stems. Especially good for cutting.....

52 Postmaster O'Brien — Lovely combination of yellow, salmon and rose. Good stems

65 Princess Aline—A small flower, excellent for cutting. Florists use it freely. Silvery rose pink shading to lighter edge

67 Queen of the Garden—An outstanding pale lemon yellow dahlia of mammoth size. Without special culture the blooms will come 8-11 inches across and they are well held on unusually strong stems

A & M Dahlias--Continued

	Each
89 Robert Treat—Strong growing variety of spreading habit. Bright American Beauty color. A real acquisition to any collection .....	.50
53 Rose Glory—Huge flower of American Beauty rose color. The stems are long and straight; good keeper .....	.75
68 Salbach's White—One of the best all round whites. Medium size and very free flowering .....	.75
54 The World—A meritorious dahlia of rich deep rosy magenta overlaid garnet. The blooms are 8-10 inches across on good stems	1.00
55 Thos. A. Edison—Gorgeous royal purple exhibition type; attractive deep green foliage and extra stiff stems....	1.00
59 Treasure Island—An outstanding variety with exquisite coloring. It is a bright apricot with gold and rose suffusion. Excellent stems	1.50
96 Trentonian—A giant flower; splendid for exhibition purposes. Brilliant combination of color from old gold to reddish bronze .....	.50
221 Tommy Atkins—Flaming scarlet with a metallic lustre that fairly glistens. A marvelous dahlia .....	.75
58 Valencia—Large chrome yellow with orange shadings. Very prolific .....	.50

A & M CACTUS & HYBRID CACTUS DAHLIAS

The true Cactus type flowers are fully double, petals long, narrow, incurved or twisted, with sharp, divided or fluted points.

The Hybrid Cactus type flowers are fully double but the petals are shorter than those of the true Cactus type and are broader and more flat, though recurved and twisted. The stems of this type are usually strong and the plants prolific bloomers.

	Each
140 Ballet Girl—Mixture of orange and white in varying degrees. The flowers are large and true cactus type .....	.50
322 Cigarette—Hy. Cac. Creamy white, heavily edged orange, with some variations .....	.50
144 Daddy Butler—A beautifully formed dahlia of rosy carmine. The twisted petals showing a lighter reverse. Good stem .....	.50
259 Dr. Rufus Von Kleinsmid—Intense fiery scarlet on perfect stems	1.00
248 Edith Tanner—Vivid rose red and rich gold—a beautiful combination of color. The flowers are of good size with wonderful keeping qualities when cut.....	1.50
260 Edna Ferber—Hy. Cac. Glistening coral, shading to old gold on face of petals	1.00
230 Emma Marie—A delicate rose pink shading to a white center. A marvelous flower and should become exceptionally popular. A fine keeper .....	.35
147 George Walters—Hy. Cac. Pinkish salmon tinged gold in the center. Popular variety .....	.50
252 Inkyo—Very vigorous grower. Flowers are a deep maroon with stout stems .....	.50
253 Mariposa—Delightful shade of pink intensified by a deeper center with a trace of violet. Perfect form.....	.75
258 Orange Gold—Hy. Cac. Exceedingly fine cut flower variety of a rich light orange; nicely stemmed. This superb dahlia should be in every collection .....	.50
255 Princess Pat—Exquisite shade of Old Rose tinted buff. Flowers are large and of perfect form.....	.50
247 Silverado—Hy. Cac. The largest dahlia of its class ever produced. The mammoth blooms are white shading to delicate lavender. Very free flowering	1.00

A & M SHOW DAHLIAS

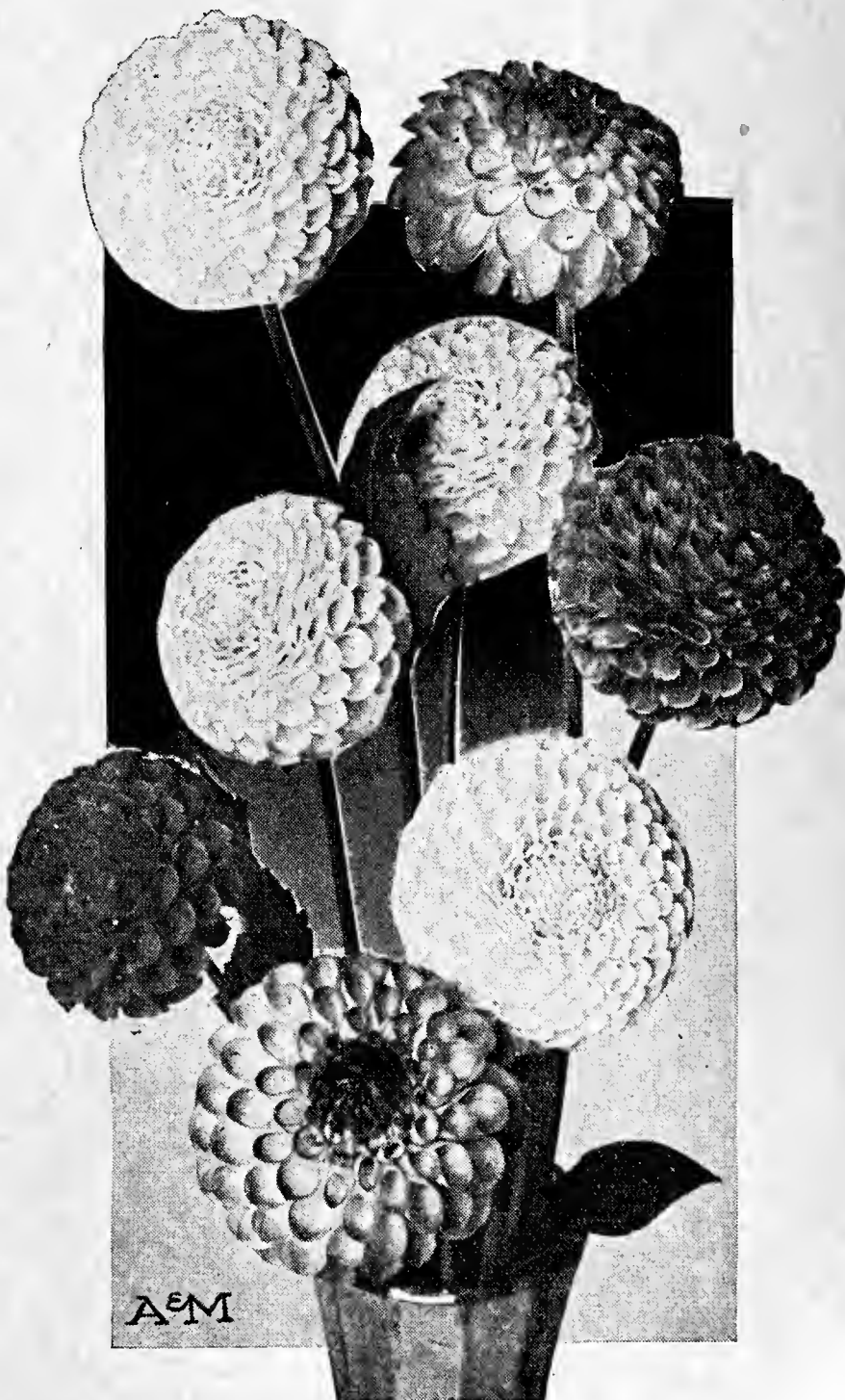
Show Dahlias are round and compact forming a ball in appearance; the petals are quilled giving the flower the appearance of a large Pompon. The blossoms are usually held on long stiff stems—a very good cutting or garden show variety.

	Each
22 A. D. Livoni—Very delightful pure pink.....	\$.35
23 B. P. O. E.—Elk's purple. Very desirable color .....	.35
21 Waldheim Glory—Colossal show type. Beautiful golden yellow .....	.75
27 Maude Adams—One of the most popular cutting varieties. White, faintly flushed pink .....	.50
29 Mrs. J. P. Smith—A very large striking cherry red flower of wonderful type and stems. One of the very finest shows .....	.35
32 A & M White—Perfectly quilled Dahlia of pure white. Large ball-shaped flower .....	.35

A & M POMPON DAHLIAS

These are the babies in the Dahlia world. Pretty, compact flowers of the show type are borne on long, stiff stems holding the blossoms upright and making a most wonderful display of color in garden. They are very fine for house decoration and the flowers will hold up a long time in water without boiling or burning the stems. No garden in California should be without Pompons. They are so different and so dainty.

	Each
292 Alice Rockwood—Pleasing shade of old rose	\$.25
327 Anna Von Schwerin—True pink .....	.50
172 Amber Queen—Amber shaded apricot .....	.25
293 Elizabeth Pape—Miniature hy. cactus. Coral pink .....	.35
177 Bobbinette—Light rose pink tipped deep purple .....	.25
269 Canary—Golden yellow .....	.25
168 Catherine—Rich golden yellow .....	.25
296 Challenge—Dark red .....	.35
280 Dandy—Perfect orange .....	.50
277 Darkest of All—Almost black .....	.35
270 Dearest—American Beauty cerise .....	.30
179 Delicacy—Light silvery phlox purple .....	.25
194 Helen Anita—Small lavender with white center .....	.50
185 Joe Fette—Fine form. Pure white .....	.25
271 Jonkheer Von Citters—Yellow tipped orange red .....	.30
294 Little David—Deepest orange, very free flowering .....	.30
192 Mary Munns—Deep mauve .....	.30
193 Mike—Excellent orange scarlet .....	.50
272 Rival—Dark velvety red .....	.50
190 Scarlet Gem—Fine scarlet .....	.35
273 Spanky—Miniature. Glowing scarlet; always greatly admired	1.50
274 Sunny Daybreak—Apricot edged red .....	.35
191 Tommy Keith—Red tipped white .....	.30
298 Vivid—Bright scarlet .....	.30
291 Yellow Gem—Pure yellow .....	.35



A & M Pom Pon Dahlias

A & M Superfine Gladioli

Our Gladioli are grown on new, clean land each season thus eliminating any danger from fungus that might be carried over from year to year. As an additional safeguard the bulbs are treated in a disinfectant solution before planting. No flowers are cut for sale from our fields. By allowing the flower and foliage to die down naturally more vitality returns to the bulb and it is superior in all respects. Gladioli should be planted about 3 inches deep in good soil, preferably in a sunny situation. One-half dozen priced at the one dozen rate.

AIDA — Striking purple-blue with small reddish blotches on lower petals. Beautiful large flowers. 15c each, \$1.50 doz.

ALBATROSS — One of the finest white Gladiolus. The spikes are large with flowers of wonderful substance. No markings in throat. 25c each, \$2.50 doz.

ANNA EBERIUS — Purple, very popular shade. 4 for 25c, 75c doz., \$5.00 per 100.

ATHENE — Exquisite salmon rose-red. A very beautiful and distinct variety. 50c doz., \$2.75 per 100.

AVE MARIE — A wonderful large light blue. It will open 8 to 10 florets at a time on a perfect spike. 20c each; \$2.00 per doz.

BETTY NUTHALL — The flowers are a vivid orange, pink and yellow and form a wonderful spike of splendid substance. Tall and vigorous. 3 for 25c, \$1.00 per doz.

BUTTERBOY — Meritorious Primulinus. Large, buttercup-yellow flowers, nicely placed. Strong plant. 4 for 25c, 75c per doz.

BYRON L. SMITH — Light lavender with cream coloring in throat. Resembles a cattleya orchid. 4 for 25c, 75c per doz., \$5.00 per 100.

CHARLES DICKENS — Clear bright purple with velvety blotch on lower petal. Flowers are splendidly placed on stem. Good substance. 2 for 25c, \$1.25 doz.

CHICAGO WHITE — Early compact blooms of attractive creamy white. 4 for 25c, 75c doz., \$5.00 per 100.

COMMANDER KOEHL — A rich deep toned scarlet. The spikes are mammoth with large wide open blooms of heavy texture. 20c each, \$2.00 per doz.

CRIMSON GLOW — Glowing velvety crimson, shaded deeper in center; tall, strong grower and flowers well placed. 3 for 25c, \$1.00 per doz.

DR. F. E. BENNETT — Peerless flame-scarlet variety with ruby throat. Flowers of good substance. 3 for 25c, 85c per doz.

EARLY SUNRISE — Deep salmon, orange throat, very large flowers. 3 for 25c, 85c per doz.

GOLDEN DREAM — Deep golden yellow. One of the best clear yellow Gladiolus introduced. Very long, straight spike. 4 for 25c, 75c per doz.

GOLDEN MEASURE — A large, clear, deep yellow. 3 for 25c, 85c per doz.

HERADA — Large blooms of pure mauve feathered purple in the throat. An elegant variety worthy of a place in any garden. 4 for 25c, 75c per doz., \$5.00 per 100.

LILAC OLD ROSE — Large blooms of lilac old-rose. A strong plant of good height. 3 for 25c, 85c per doz.

LOS ANGELES — Grenadine pink with considerable orange. Los Angeles is often referred to as the "Cut and Come Again" Gladiolus, because it produces many branches on one stalk. 4 for 25c, 75c per doz., \$5.00 per 100.

MARMORA — One of the finest in the smokey color class. A lovely lavender gray with slight purple marking in throat. 15c each, \$1.50 per doz.

MINUET — An exquisite flower of beautiful clear lavender. The spikes are of good size and florets nicely placed on straight stems. 2 for 25c, \$1.50 doz.

MRS. FRANCIS KING — Bright red. 4 for 25c, 75c per doz.

MRS. FRANK PENDLETON — Rose-pink with carmine blotch. Large wide open flowers and excellent for vase work. 4 for 25c, 60c per doz., \$4.00 per 100.

MRS. LEON DOUGLAS — Immense begonia rose flower striped with flame and brilliant scarlet. Lip pale lemon, slightly speckled with ruby. A giant among Gladioli. 4 for 25c, 75c per doz.

MRS. VAN KONYNENBURG — Matchless aniline-blue. Several flowers open at a time. Fine, healthy grower. 15c each, \$1.50 per doz.

ORANGE QUEEN — Exceptional variety with superb spikes of distinct glowing apricot-orange color. Very striking. 3 for 25c, \$1.00 per doz.

OSALIN — Lovely coral-pink with soft orange markings. Good height and fine placement. 2 for 25c, \$1.25 per doz.

PFITZER'S TRIUMPH — One of the largest and most striking Gladioli in the garden. It is a flaming scarlet orange though usually placed in the red class. 15c each, \$1.50 per doz.

PRINCE OF WALES — A clear, delicate salmon pink. The finest of this color and one that we highly recommend. An early variety and very popular for cutting. 50c per doz., \$2.75 per 100.

PURPLE GLORY — Large ruffled flowers of velvety maroon. Very tall and showy. 10c each, \$1.00 per doz.

SOUVENIR — Primulinus. A striking clear bright yellow. 4 for 25c, 60c per doz., \$4.00 per 100.

VIRGINIA — Brilliant scarlet. A vigorous grower with erect stalks. Exceedingly attractive for cutting or will give a grand mass of color when grown in beds. 4 for 25c, 60c doz., \$4.00 per 100.

W. H. PHIPPS — The wonder Gladiolus. Spikes are enormous with several flowers open at the same time. Lovely salmon-pink; lower petals faintly speckled ruby. A prize winner. 4 for 25c, 75c per doz.

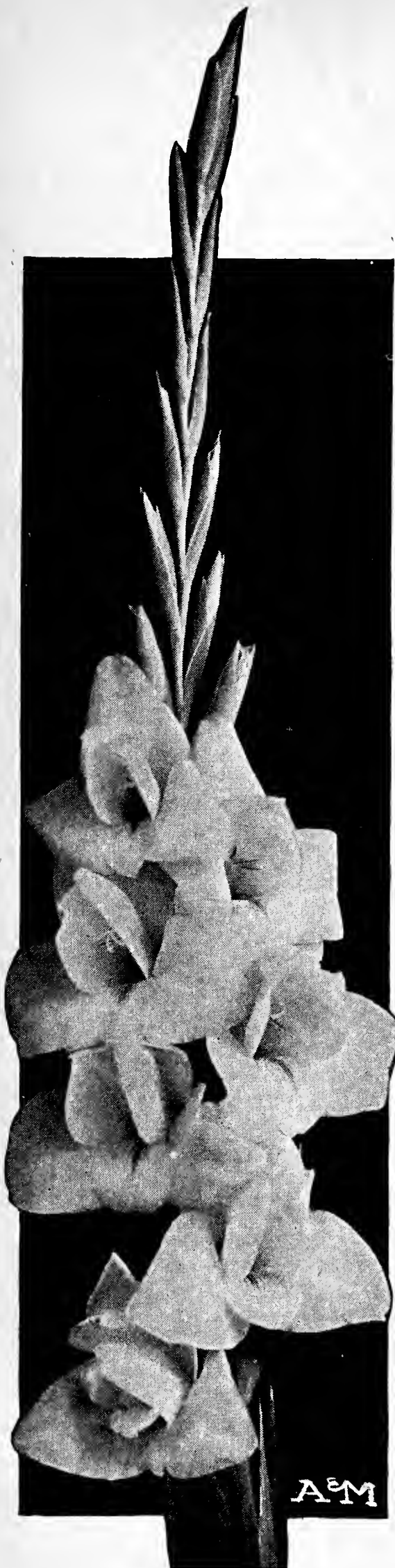
EXTRA CHOICE MIXTURE — Grown from the best mixture of bulblets and includes many of the finest varieties. A splendid range of colors will be obtained from this fine assortment. 60c per doz., \$4.00 per 100.

FANCY MIXED — This mixture comprises a large number of varieties in good blooming size bulbs. The wide range of colors will be a delight to the garden. 40c per doz., 75c per 25, \$2.50 per 100, \$22.50 per 1000.

PRIMULINUS MIXED — Many of the most recent introductions are included in this mixture. This type is very valuable as a cut flower, the long, slender spikes lending themselves to most artistic arrangements in vases. 50c doz., \$2.75 per 100.

PLEASE NOTE

We have many other varieties of Gladiolus in stock; If interested will you please write for particulars?



Orange Queen

A & M California Grown Roses

Not only has California become headquarters for the production of all kinds of seed for distribution throughout the country, but it has in a measure also become headquarters for the growing of rose bushes for shipment to all parts of the United States. Many carloads of rose bushes are shipped from Southern California each year and this should indicate to the home gardener that soil and climatic conditions in California are ideal for roses.

Our offerings are roses of strictly No. 1 Grade, 2-year-old, budded stock. You will find our prices more than reasonable and if others are offered for less money a comparison of quality should be made.

New and Outstanding Varieties

COUNTESS VANDAL—(U. S. Plant Patent No. 38). One of the best introductions of recent times. The long buds are a coppery bronze suffused gold. Very profuse bloomer. Each \$1.50.

DOTTY—A long-season blooming rose with nice glossy foliage. The color is a very beautiful bronze yellow. Each \$1.00.

MRS. J. D. EISELE—(U. S. Plant Patent No. 67). A new rose of outstanding merit. The perfect buds and full flowers are richly perfumed and the color is a brilliant cherry-rose. Each \$1.50.

RED HOOVER—A lovely glowing red color being a sport from the President Hoover rose. Very vigorous, free flowering and delightfully fragrant. Each \$1.50.

ROMANCE—The long pointed buds and large double flowers are a most attractive shade of yellow. Very strong grower and exceedingly fragrant. Each \$1.50.

GENERAL LIST

All of the varieties listed below represent the finest introductions of recent years and we recommend them with every confidence.

AMERICAN BEAUTY—Deep pink to soft carmine, with delicate veining to dark red on the broad petal. Each 50c.

ANGELE PERNET—Vivid orange yellow, shaded fiery deep reddish apricot. This is a combination of colors very difficult to describe, but it is a most beautiful rose. Each 50c.

AUTUMN—Medium size buds and double flowers with novel coloring of burnt orange, streaked with red. Strong grower and healthy foliage. Each 75c.

CALEDONIA—One of the finest white roses grown. The buds are long and pointed with the outer edges gracefully rolled. Free bloomer and fragrant. Each 75c.

CECILE BRUNNER—(Bush). The popular miniature rose; bright salmon pink. Each 50c.

DAME EDITH HELEN—An engaging soft rose pink and the immense flowers are delightfully scented. The plant is very vigorous. Each 50c.

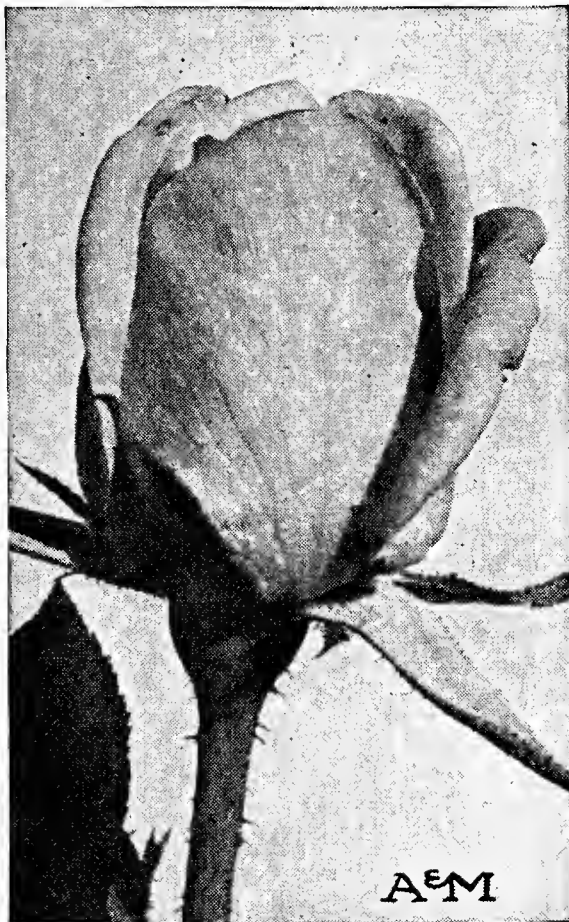
DUCHESS OF ATHOL—A distinct and charming color of old golden bronze flushed peach pink. Vigorous grower. Awarded certificate of merit by the National Rose Society of England. Each 50c.

DUCHESS OF WELLINGTON—Intense saffron yellow stained with deep crimson, changing to a deep coppery saffron yellow as the flowers develop. Each 50c.

EDITH NELLIE PERKINS—A new combination of shades, the long pointed buds being a cream and blush opening to a rich carmine pink suffused gold. Very fragrant. Each 75c.

E. G. HILL—Very popular rose with long and nicely formed buds of glowing scarlet. Does not fade or turn purple. Each 50c.

ETOILE DE HOLLAND—This strong healthy grower produces blooms of a brilliant crimson red. Richly scented. Each 50c.



Duchess of Athol

FEU JOSEPH LOOYMANS—Remarkable for its long pointed buds of glowing orange buff and moderately double yellow flowers. Fragrant and excellent for cutting. Exceptionally fine. Each 75c.

FRAU KARL DRUSCHKI—Snow white. Flowers are extremely large yet beautifully formed. The growth is strong and vigorous. Each 50c.

GENERAL McARTHUR—A well known and popular rose of bright crimson scarlet and delightfully scented. Each 50c.

GLORIA MUNDI—Polyanthus type. The flowers are a striking orange scarlet and borne in graceful clusters. Continuous bloomer. Each 50c.

GOLDEN EMBLEM—A most beautiful deep golden yellow, occasionally flaked with crimson on the outer petals. Foliage is a rich glossy green. Each 50c.

HADLEY—Deep velvety crimson, retaining its color at all seasons. The buds are well formed, large, full and long. It is a free bloomer and fragrant. Ea. 50c.

HOOSIER BEAUTY—A glowing crimson with darker shadings. The buds are large, long and pointed. Blooms are very full when open. Each 50c.

IMPERIAL POTENTATE—Magnificent rose of recent introduction. The color is a deep shining rose-pink, shaded lighter on reverse of petals. Very fragrant. Each 50c.

KAISERIN AUGUSTA VICTORIA—Probably the best creamy white rose grown for garden purposes in Southern California. Each 50c.

LOS ANGELES—A luminous flame pink toned with coral and shading to gold at the base of the petals. Each 50c.

PLEASE NOTE

Planting directions are enclosed in each package.

The bushes we offer are on sale from January 1st to March 25th only.

Roses are sent postpaid.

MISS ROWENA THOM—The long shapely buds open to perfect double flowers of matchless oriental rose with the petal base a suffused gold. Free bloomer and fragrant. Each 50c.

MRS. PIERRE S. du PONT—Very fragrant flower of deep golden yellow. Vigorous growth with rich green foliage. Each 75c.

MRS. SAM MCGREDY—A beautiful and distinct combination of vivid shades—coppery orange heavily flushed with red on the outside of the petals. Delicately perfumed and an all-round splendid variety. Each 75c.

OLYMPIAD—Many have tried to describe the remarkable color of this introduction, but it may be portrayed as a dark oriental scarlet with a lovely, bright golden base. Each 75c.

PRESIDENT HOOVER—A splendid combination of cerise pink, copper, scarlet and yellow. Beautifully pointed buds and delightfully fragrant. Each 75c.

RADIANCE—Large cup shaped flowers of soft carmine pink and one of the very best garden varieties. Each 50c.

RED RADIANCE—A velvety glowing crimson with all of the magnificent qualities of the Radiant Pink. The flowers are full. Each 50c.

SOUV. DE CLAUDIUS PERNET—One of the finest deep yellow roses introduced in recent years. The plants are of branching habit with a very pretty foliage. Each 50c.

TALISMAN—Remarkable colorings of gold, apricot, deep pink and old rose. Glossy green foliage. Each 50c.

VILLE DE PARIS—An outstanding rich buttercup yellow rose. Excellent for cutting and blooms profusely throughout the season. Each 50c.

CLIMBING ROSES

CL. BLAZE—(U. S. Plant Patent No. 10). Sensational new hardy climbing rose which inherits dazzling color of Paul's Scarlet and is of everblooming habit. Very vigorous grower and produces flowers on both old and new wood. Ea. \$2.00.

BELLE OF PORTUGAL—The flowers are very large, of a soft pearl pink in color and are produced on long stems. It is a free bloomer, particularly in the spring time. Each 50c.

CL. CECILE BRUNNER—One of the strongest growing roses and very free bloomer. Baby size flowers, a clear pink. Each 50c.

CL. CLARA BOW—Rich deep yellow with coral flush. Very vigorous and free flowering. Each 50c.

CL. DAME E. HELEN—Immense soft rose pink flowers, delightfully scented. Each 75c.

CL. HADLEY—Same as the well known bush variety. Each 50c.

CL. HOOVER—Combination of cerise, copper, scarlet and yellow. Fragrant. Each \$1.00.

CL. RADIANCE—Soft carmine pink. Each 50c.

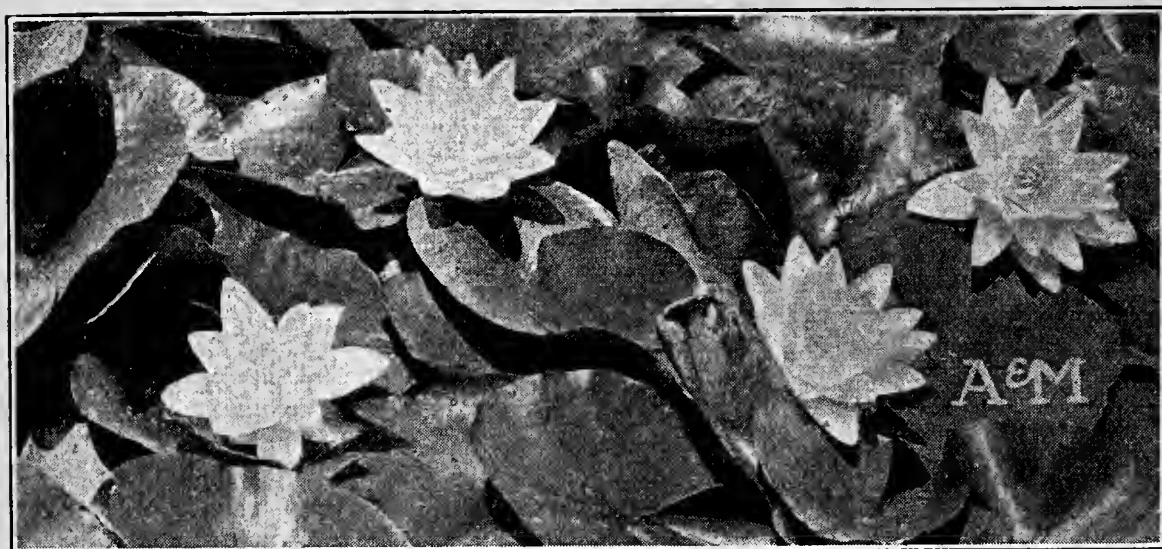
CL. K. A. VICTORIA—One of the best creamy white climbers. Each 50c.

CL. PAUL'S SCARLET—A vivid shining scarlet, in large semi-double flowers which remain unusually long and in good condition on the plant. Each 50c.

CL. SOUV. DE CLAUDIUS PERNET—Climbing counterpart of the wonderful bush form. Beautifully formed buds of pure deep yellow. Each 50c.

CL. TALISMAN—Identical with the bush form of this popular variety except it is a splendid climber. Color gold, apricot and pink. Each \$1.00.

Water Lilies and Aquatic Plants



Hardy Water Lilies

HARDY WATER LILIES

Alba Candidissima—Early and free bloomer with large pure white flower. Each \$1.25.

Attraction—Immense bright red flowers almost 8 inches across. Exceedingly free flowering and vigorous. Each \$3.00.

Aurora—Flowers rosy-yellow on first day, changing to deep red on third day; stamens orange. Each \$1.00.

Comanche—Wonderful combination of orange and amber red. Largest and finest of all apricot tinted varieties. Early bloomer. Each \$1.50.

Conqueror—Early bloomer producing large cup-shaped, fragrant flowers of violet rose shaded with white. Each \$2.25.

Escarboucle—Very striking color of vermillion-red. Exceptionally attractive and free bloomer. Each \$2.50.

Eugenia de Land—An exquisite sweet scented flower with long pink petals shaded deeper at the base. Each \$1.25.

Gladstoniana—Flowers pure dazzling white and cup-shaped. One of the best for large pools, being very massive and requiring plenty of space. Each \$1.50.

Gloriosa—Superb variety. Flowers of perfect form; petals concave; deep carmine rose becoming dark red late in season. Continuous bloomer. Each \$2.25.

Helen Fowler—The flowers are deep pink, very fragrant, and are borne on stout stems, making it useful for cutting purposes. Each \$1.50.

James Brydon—Beautiful cup-shaped flowers of rich rosy-crimson color, reverse of petals having silvery sheen. Free and continuous bloomer. Each \$2.00.

Marliacea Albida—Large and fragrant flowers of sparkling whiteness with yellow stamens and sepals flushed pink. Continuous bloomer. Each \$1.00.

Marliacea Carnea—Color a soft flesh pink. Splendid companion to next variety, which it resembles. Each \$1.00.

Marliacea Chromatella—Flowers bright canary yellow and leaves deep green beautifully blotched with brown. Each \$1.25.

Marliacea Rose—Large deep rose flowers. One of the best for cutting. Each \$1.50.

Masaniello—Novel coloring of rose-pink, dotted carmine with white sepals. The flower is very fragrant. Free grower, needing considerable room. Each \$1.25.

Mexicana—Handsome bright yellow flowers standing well above the water and very fragrant. Unique. Each 50c.

Paul Hariot—The flowers are yellow when opening and change to a pink suffusion the third day; a novel variety. Each \$1.25.

Pygmaea Helvola—Miniature yellow water lily. Very dainty sort for aquariums, tubs or shallow pools. Each 75c.

Robinsonia—Distinct variety, the floating flowers having a ground color of yellow overlaid with purplish red. Each \$1.50.

Rose Arey—The flowers are large and deep cerise-pink in color. The pointed petals are curled giving a darker shading effect. One of the best of the odorata type. Each \$1.50.

Sioux—Star shaped flowers of a splendid rich coppery yellow color changing to amber red. Very hardy. Each \$1.75.

Somptuosa—A very large flower, almost double; outside petals rosy-pink, gradually deepening toward the center to nearly crimson. Each \$1.50.

Sultan—Magnificent large cherry-red flowers faintly tipped white. The sepals are white and the stamens red. Each \$3.00.

Sunrise—This rare variety has immense flowers averaging 10 inches across and is a consistent bloomer. Beautiful sulphur yellow blooms with huge green leaves mottled red. Each \$2.50.

Tuberosa Richardsoni—Immense snowball-like flowers, pure white and quite double. Always greatly admired. Each \$1.50.

Vera Louise—Has broad white petals with inner flesh tints and the sepals are red brown. Extra fine. Each \$2.00.

Wm. Doogue—A magnificent lily. Beautiful shell-pink color and blooms continuously. Each \$1.50.

TROPICAL WATER LILIES

August Koch—Flowers are 7-8 inches in diameter and are a lovely purplish lilac. Each \$2.00.

Col. Lindbergh—Large sky-blue flowers with beautiful yellow centers. Sweetly scented. Each \$2.00.

Daubeniana—The flowers are very light blue and delicately scented. The young plants spring from the surface of the old leaves. Each \$1.00.

Mrs. C. W. Ward—A charming variety with petals of rich rose-pink, illumined by a mass of golden stamens. Ea. \$1.50.

Panama-Pacific—An everblooming variety. The buds are bronzy green opening a rich rosy red. Has a marvelous perfume. Each \$2.25.

Pennsylvania—Rich azure-blue flowers speckled with maroon. A magnificent lily of great merit. Each \$4.00 (small plants \$2.25).

Zanzibarensis Azurea—Beautiful water-lily, the flowers being large and of a clear azure blue. Each \$1.75.

Zanzibarensis Purpurea—One of the best in this class. Rich, dark blue flowers are produced on long stems. Each \$2.00.

Zanzibarensis Rosea—Similar to above. Color a deep rosy-pink. Each \$1.50.

Zanzibarensis Rubra—Splendid variety bearing flowers of very bright rosy-crimson. A free bloomer. Each \$2.00.

CULTURAL DIRECTIONS

Place two inches of well rotted cow fertilizer on the bottom of the pond with two or three inches of garden soil on top of this. Dampen slightly and tamp down hard, after which spread half an inch of sand over the top to hold the dirt and fertilizer down.

Plant the lilies about two feet apart. Usually 5 lilies will give splendid results in a 9'x9' pool. They should be planted so that the crown is just above the surface of the dirt in the pool. Fill the pool very slowly with water up to the top. The lilies will soon be on top with their new leaves and blooms. Put in fish, snails and small mosses, planting the moss on the bottom of the pool in the dirt. About twice a week fill the pool with water to take care of evaporation.

LOTUS

Egyptian Lotus (Nelumbium Speciosum)—The sacred flower of the Egyptians. Blossoms are rose color and possess a haunting fragrance. Tubers \$1.50.

American Lotus (Nelumbium Lutea)—The rich yellow flowers frequently attain a diameter of 8 to 10 inches. Tubers \$1.50.

SHALLOW WATER PLANTS

Arrowhead Giant (Sagittaria sagittifolia)—Arrow shaped leaves. 25c each, \$2.00 doz.

Cat-Tail (Typha latifolia)—A favorite native swamp plant. 25c each, \$2.00 doz.

Floating Heart (Nymphoides peltatum)—Brilliant yellow flowers. 25c each, \$2.00 doz.

Iris Pseudacorus—Yellow flag. 25c ea.

Ludwigia Mulletti—Green and pink leaves. 10c bunch.

Parrot Feather—10c bunch.

Pickereel Rush—Blue flowers. 25c each.

Primrose Creeper (Jussiaea Repens)—Partially submerged vine with waxy green leaves and yellow flowers. 6 for 25c.

Thalia (Dealbata)—Canna-like plant. Purple blooms. 75c each.

Water Bamboo—Very artistic. Clump 50c.

Water Lettuce—Green fuzzy plants that float. 10c each, \$1.00 doz.

Water Hyacinths—Lilac flowers. 10c each, \$1.00 doz.

Water Poppy—Yellow poppy-like flowers. 10c each, \$1.00 doz.

OXYGENATING PLANTS

Provide food and oxygen for the fish.

Anacharis—10c bunch.

Coon Tail—10c bunch.

Heteranthera—10c bunch.

Sagittaria (Broadleaf)—15c ea., 2 for 25c.

Eel Grass—5c each, 50c doz.

'SNAILS

Snails are necessary to clean the pool of green scum.

Japanese Trap Door—10c, 25c, 50c each.

African Paper Shell—5c ea., \$5 per 100.

Black Ramshorn—5c each, \$5.00 per 100.

BEGINNER'S COLLECTION

This is a well-balanced collection, especially selected for those starting a new pool.

1 Marliacea Carnea—Pink	.....\$1.00
1 Mexicana—Yellow	..... .50
1 Arrowhead Giant	..... .25
1 Iris Pseudacorus	..... .25
1 Water Hyacinth	..... .10
1 bunch Coon Tail	..... .10
1 bunch Anacharis	..... .10
10 Snails	..... .50

For \$2.15 postpaid.

\$2.80

Chrysanthemum Plants

Include a few plants in your garden for a colorful show when other flowers are scarce. Old clumps should not be left in the ground year after year, but should be replaced with young vigorous plants. Young plants should be set out any time from April to the middle of June, in a sunny open place well fertilized. Plant about 18 inches apart in the row and 2½ feet between the rows. When the plants are 6 to 8 inches high pinch out the tops. Later select the best and strongest shoots, perhaps two of them, removing all others. These will supply two good flowers to each plant; however you may leave more shoots for more flowers, but they will be smaller. Water about once each week, following each irrigation with thorough cultivation. Sprinkling occasionally will help prevent Red Spider and stimulate growth. Spray occasionally with Acme Bordeaux Mixture. The varieties we offer are all strong, well rooted plants, propagated from soft wood cuttings and grown on in 2½-inch pots.

Our plants are ready by April 15th and are sent postpaid.

Exhibition and Large Flowering Types

A selection of the best standard commercial and exhibition types. With a little care in growing and disbudding they will produce magnificent blooms.

BONNAFFON—YELLOW. Bright yellow incurve. Midseason. 15c each, \$1.50 doz.
CAMILLA—WHITE. Early incurved white. 15c each, \$1.50 doz.
CELEBRATION—YELLOW. Deep yellow incurve for Thanksgiving. 15c each, \$1.50 doz.
CHATTANOOGA—WHITE. Late pure white. 15c each, \$1.50 per doz.
DETROIT NEWS—BRONZE. Fine incurve bronze. Midseason. 15c each, \$1.50 doz.
EDGAR SAUNDERS—BRONZE. Late deep bronze. 15c each, \$1.50 doz.
GARNET KING—RED. Deep reflex garnet with silken sheen. Late. 15c each, \$1.50 doz.
GOLDEN GLORY—YELLOW. Early yellow incurve. 15c each, \$1.50 doz.
GOVERNOR GREEN—RED. Crimson, old gold reverse. Early. 15c each, \$1.50 doz.
HILDA H. BERGEN—BRONZE. Deep mahogany bronze incurve. Early. 15c each, \$1.50 doz.
HONEY DEW—YELLOW. Wonderful satiny yellow incurve. Midseason. 15c each, \$1.50 doz.
LA FRANCE—PINK. Incurved exhibition type. Upper petals nearly purple, reverse silvery mauve. 25c each, \$2.50 doz.
LOUISA POCKETT—WHITE. Huge incurved white. 25c each, \$2.50 doz.
MARGARET GRAHM—WHITE. Delightful pure white midseason incurve. 15c each, \$1.50 doz.
MOHAWK CHIEF—RED. Late red reflex. 15c each, \$1.50 doz.
MRS. HENRY EVANS—RED. Resembles a huge crimson Cactus Dahlia. 25c each, \$2.50 doz.
OCTOBER ROSE—PINK. Early large incurved pink. 15c each, \$1.50 doz.
PINK DELIGHT—PINK. Bright rosy pink. Midseason. 15c each, \$1.50 doz.
PURPLE KING—PURPLE. Large exhibition reflex purple. 25c each, \$2.50 doz.



Hardy Early Flowering Type

These hardy varieties precede the regular Chrysanthemums.

(Each 15c, \$1.50 doz.)
BOSTON—Deep bronze; tall.
CHALDRON—Reddish crimson, gold tipped.
ETOILE D'OR—Large bright yellow reflex.
MULDOON—Purple medium sized pompon.

Exhibition Anemone Type

The artistic blooms have a cushion-like center and the petals are rayed.

(Each 25c, \$2.50 doz.)
BUFF QUEEN—BRONZE. Buff flowers, 6 inches in diameter.
CAPTIVATION—BRONZE. Mahogany red.
GRAF VON ORIOLA—PINK. Deep rose pink, yellow cushion.
NORMA—PINK. Delicate pink, bronze-yellow cushion; late.
PINK SUPREME—PINK. Shell pink, very late.

Standard Anemone Type

(Each 15c, \$1.50 doz.)
BRONZE IZOLA—BRONZE. Bokhara sport of Izola.
GARZA SUPREME—WHITE. Pure white rays, very late.
GOLDEN LIDA THOMAS—YELLOW. Small golden yellow; Thanksgiving.
IZOLA—PURPLE. Even shade of amaranth; midseason.
MAY COLLADAY—PINK. Rosy lavender; midseason.
PURITAN—WHITE. Pure white; midseason.
RED BIRD—RED. Deep garnet; greenish gold center.

SUNSHINE—YELLOW. Large bright yellow; late.
VIVIAN MARTIN—PINK. Baby pink Anemone; yellow center; late.

Single Type

These do not need disbudding and make a wonderful show both as a cut flower and in the garden.

(Each 15c, \$1.50 doz.)
ANNE—WHITE. Small white.
DAZZLER—RED. Red with bright yellow center.
ELIZABETH McDOWELL—BRONZE. Late orange.
GLADYS DUCKHAM—WHITE. Large late white.
LITTLE BARBEE—YELLOW. Small bright yellow.
LOUISE MAYO—PINK. Large creamy lavender; midseason.
MRS. C. S. McKINNEY—YELLOW. Bright buttercup yellow; large.
MRS. MAX BEHR—RED. Chestnut scarlet.
R. COLLINS—BRONZE. Early large tawny bronze.
ROUPEL BEAUTY—PINK. True American Beauty color.
SUPREME—RED. Very large deep crimson.
SYLVIA SLADE—PINK. Garnet with white band around center; midseason.

Pom Pons

This type is exceedingly popular for the wonderful decorative effects.

(Each 15c, \$1.50 doz.)
AGATHA—YELLOW. Lemon yellow, red center; midseason.
AMOS—BRONZE. Medium sized pure bronze; midseason.

BABY—YELLOW. Button type.
BRIGHT EYES—PINK. Bright pink; midseason button type.
CHICAGO PEARL—WHITE. Medium size; midseason.
CORDOVA—WHITE. Very late large white.
CRIMSON LUSTRE—RED. Deep crimson; midseason.
DOLORA—BRONZE. Midseason bronze button.
DORIS—BRONZE. Early reddish bronze.
DOROTHY TURNER—BRONZE. Bronze and gold; late.
ETHEL—RED. Early, small, brick red.
JEWELL—PINK. Large pink button type; early.
LA GRAVERE—RED. Very deep red; late.
LUGANO—YELLOW. Bright lemon yellow; midseason.
SILVER TIPS—PINK. Bright pink, silver tipped; midseason.
YELLOW DOT—YELLOW. Yellow lemon button; dwarf midseason.
YELLOW DOTY—YELLOW. Large bright yellow; late.

Feathery and Thread-Like

Novel in form and color.
(Each 25c, \$2.50 doz.)

J. C. TAGGART—Orange-bronze with quilled petals covered with hairs.
LAVENDER FEATHER—Deep lavender flowers. Tall and very prolific.
MIGNONETTE—Resembles a light yellow thistle bloom.
MISS GENA HARWOOD—Mauve sport of Rayonnante.
PINK BEAUTY—Lavender, quilled petals.
THE DEAN—Pure white, quilled petals.
YELLOW TAGGART—Deep yellow. Similar form to J. C. Taggart.

Berries

WRITE FOR QUANTITY PRICES

We can supply the following plants in large or small quantities. Our offerings are limited to what we consider the very best varieties in each case. No plants will be sent C. O. D.

YOUNGBERRY

This new type of fruit was produced scientifically by crossing the loganberry with the dewberry, and it combines to a remarkable degree the most desirable qualities of all other berries. Its sweetness makes it a fine fresh table berry comparable to the strawberry. It also has the pleasant flavor of the red raspberry, the juiciness of the loganberry, and the jelling and canning qualities of the blackberry.

The season for ripening in Southern California is from the middle of May to the middle of July. No special method of culture is required, but good soil cultivation and a moderate amount of moisture will give desired results. Set the plants 5 or 6 feet apart in rows 8 feet apart for commercial use. In the home garden the plants can be trained much higher than in the field and they can, therefore, be set closer together in the rows. Plant during January, February and March.

Each 15c, 6 for 75c, dozen \$1.00, 25 for \$2.00, postpaid.

RASPBERRIES

Set the plants 4 feet apart in the rows and support on parallel wires. When the new growth reaches a height of 2 or 3 feet pinch out the tips to induce lateral growth. The laterals should also be pinched off. After the crop is harvested remove the old wood so that all the energy of the plant will be forced into the new growth.

St. Regis Raspberry Very early, fruit round-oval and large; color a clear magenta red. A very pronounced flavor. Each 15c, 6 for 75c, doz. \$1.25, 25 for \$2.25, postpaid.

Cuthbert Old standard variety bearing large deep crimson berries of fine flavor. Ripens over a long period. Each 15c, 6 for 75c, doz. \$1.25, 25 for \$2.25, postpaid.

Black Cap Raspberry Familiar to many who have grown them in eastern climates. Each 15c, 6 for 75c, doz. \$1.25, 25 for \$2.25, postpaid.

LOGANBERRIES

A wonderful berry and entirely in a class by itself. Runners should be trellised on wires. When fruiting season is past remove the fruiting canes and wind the new canes around the wire. Set plants 6x8 feet.

Each 15c, 6 for 85c, dozen \$1.50, 25 for \$2.85, postpaid.

BLACKBERRIES

Crandall's Early A large fruited luscious berry of rich dark color. It is one of the earliest varieties and very productive. Each 15c, 6 for 75c, doz. \$1.25, 25 for \$2.25, postpaid.

STRAWBERRIES

A & M Progressive The A & M Progressive will bear a full crop the first year if properly handled. Because it does not make many runners, the plants should be set close, say 10 to 12 inches in the row and about 22 inches between rows. This distance apart requires 20,000 plants to the acre. Encourage runners and new plants by frequent irrigation and fertilizing. Never cut off the runners, but rather train them along the row. 12 plants 35c, 25 plants 65c, 100 plants \$2.00, postpaid.

A & M Mastodon New strawberry of huge size. Unlike other everbearing varieties, the plants are large and heavily crowned. Notwithstanding its size it is extraordinarily prolific, bearing strongly throughout the summer to early fall. The quality of the berry is supreme. 12 plants 35c, 25 plants 65c, 100 plants \$2.00, postpaid.

Improved Klondike This variety does well in hot sections. It is a vigorous grower, very prolific and yields over a long period. A medium size berry of good flavor and is an excellent shipper. 25 plants 40c, 100 plants \$1.25, postpaid.

Blakemore An extraordinarily firm berry, therefore is supreme for shipping purposes. It is very productive and starts bearing early in the season. The berries are a bright color and of excellent flavor. 25 plants, 50c; 100 plants \$1.50, postpaid.



1. Place
HOTKAP
in Setter.



2. Cover
Outside
Edge of
HOTKAP
With Soil.

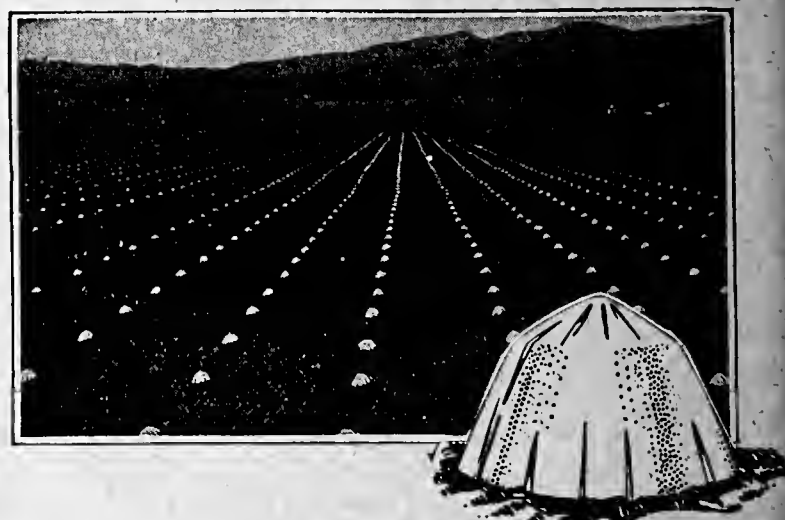


3. Tamp Soil
Around
Edge of
Setter.

Hotkaps Protect Plants

HOTKAPS are patented wax paper cones that completely cover each plant—the only way to fully protect them from frost. They are an “individual hothouse for each plant,” protecting them not only from frost, but from wind, rain, ground-crusting, and insects as well. This is your assurance of earlier, bigger crops and early-to-market prices.

HOTKAPS are quickly and easily “set.” One man can set over 3,000 of them a day. The illustrations on the left show how they are placed with the aid of the HOTKAP Setter and Tamper.



Prices f. o. b. Los Angeles. Send postage extra if wanted by mail.

1,000—\$10.00 per 1,000 5,000—\$9.85 per 1,000 10,000—\$9.75 per 1,000

250 Trial Package, including Garden Setter with Tamper, \$3.65. 100 Home Package, including Garden Setter with Tamper, \$2.40. No quantity sold less than 100.

Hotkap Steel Setter with Tamper—\$2.25. Home Garden Setter—50c. Postage extra.

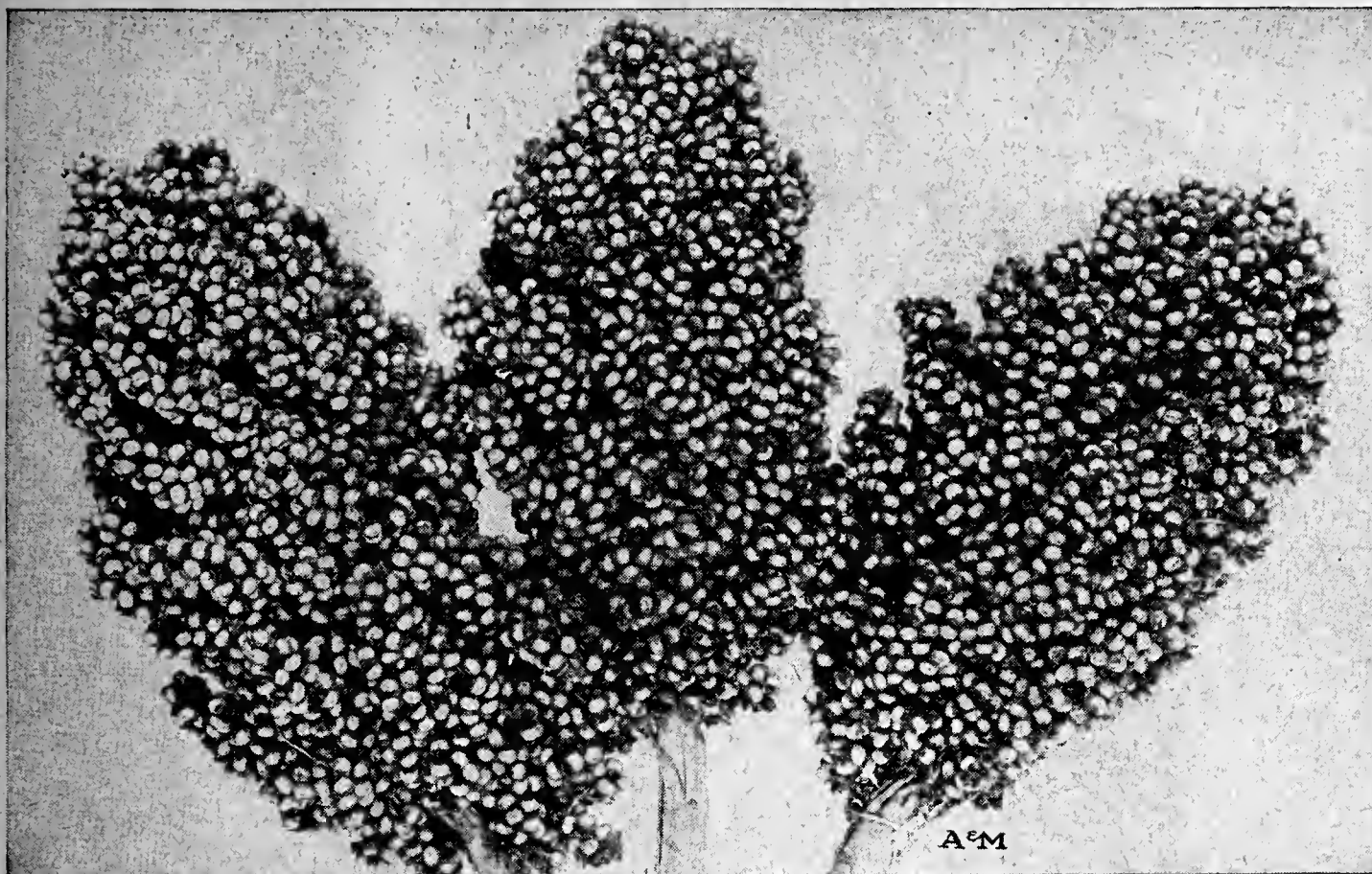
Weights—1,000 package Hotkaps, 28 lbs.; 250 package, 9 lbs.; 100 package, 5 lbs.; Steel Hotkap Setter, 3 lbs.

GLASSINE FLAT PAPER PLANT COVERS

Glassine Flat Paper Plant Covers. An inexpensive and economical protection. These are not Hotkaps and have to be folded. Packed 1,000 to bundle. F. O. B. Los Angeles.

Size	Approx. Wt.	100 Price	1,000 to 4,000	5,000 to 9,000	10,000 or more
16 x 18	17 lbs.	45c	\$3.25	\$3.10	\$2.95
18 x 20	24 lbs.	50c	3.75	3.65	3.55

FARM SEEDS



The
Heaviest
Yielding
Maize
Grown
Specially
Selected
by us
for Years

A & M SELECTED DWARF MILO MAIZE

Since the cost per acre of Milo Maize Seed is very small it certainly pays to secure the best seed obtainable. Where the soil is properly prepared it requires but 3 to 4 lbs. per acre, therefore, the cost of seed would be but a few cents, hence Milo Maize Seed should be considered entirely from the quality standpoint. Yield of grain per acre is what you want and you cannot afford to experiment on strains that are being grown by inexperienced growers.

Being of uniform height it may be harvested by machinery but, if harvested by hand, the large heads reduce the cost of harvesting. It grows to a height of about 4 feet, is of stooling habit, and individual hills of 5 to 7 stalks in a stool each producing a large compact head are not uncommon throughout the field. We have had reported yields of two tons of threshed maize per acre and where the soil and climatic conditions are favorable we feel that this is a very conservative estimated yield. Very often there is a temptation among farmers and others to save their own seed of Milo Maize or to plant seed that has been produced in their own district, but since it is very easily crossed with other sorghums this is a bad practice and we advise against it. We produce our seed maize in isolated districts where there are no other sorghum crops grown near and by hill and head selection each year, the strain is kept uniform and true. Considering again that it requires but a few cents per acre to plant the very best milo maize seed there appears to be no good reason why the planter should experiment with untried strains. If you are going to plant Maize, let us send you a sample of our seed and quote prices on quantity.

(Lb. 20c) (10 lbs. \$1.75) (25 lbs. \$3.00) postpaid. Write for quantity prices.

DOUBLE DWARF MILO MAIZE

This variety of red milo maize is very dwarf, growing only 2 to 2½ feet high and has been developed especially for convenience and economy in harvesting. It can be cut and harvested by machinery in the same manner as heading grain. Very profitable crop to grow, the average yield being two tons per acre. Sow at the rate of 4 to 5 lbs. per acre from April until middle of June. (Lb. 20c) (10 lbs. \$1.75) (25 lbs. \$3.00) postpaid. Write for quantity price.

SACCHARINE SORGHUM

CULTURE: All sorghums, saccharine or non-saccharine, should be sown in rows 30 or 36 inches apart, using five or six pounds of seed per acre. If irrigated it is necessary to cultivate it after each irrigation. It is advisable to give a shallow cultivation every two or three weeks until it becomes too large. The sorghum is ready to cut for the silo when the seed has matured.

Honey This variety is very desirable because of the large yield of grain, as well as enormous growth of forage. It is given special recommendation in the Farm Bureau Monthly, and has proven highly satisfactory to all who grow it. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Write for quantity price.

Early Amber The Early Amber has been grown in California for many years and has always proven entirely satisfactory. It grows twelve feet tall when allowed to mature, but it stools to a wonderful extent when cut about every four weeks. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Write for quantity price.

READ

If you need forage for your horses, cattle or hogs, Sorghum planted about April 1st will furnish you the best feed in the shortest space of time. One-half acre will feed four head of stock all summer if only enough is cut each day for one day's need. In this way one can cut continuously all summer. As much as 40 tons may be cut from one acre.

NON-SACCHARINE SORGHUM

Egyptian Corn This is grown chiefly for the foliage to pasture when young, but yields largely of grain. The chief merit of these fodder crops is in their hardiness to produce fodder and grain with almost no rainfall or irrigation. Sow four pounds per acre drilled. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Write for quantity price.

Feterita Very popular on account of its astonishing growth after it becomes well rooted. Every testimonial received expresses astonishment at its rapid growth.

Sow 4 pounds of seed per acre drilled two feet apart; by so doing it yields 5,000 to 6,000 pounds of grain per acre. The crop is sometimes cut when green and fed or pastured and for this purpose it is sown 12 lbs. per acre.

The grain has about the same feeding value as Egyptian Corn or Milo Maize; yields from two to three tons of grain per acre. The seed is more susceptible to cold than other sorghums, therefore should not be planted so early, nor should it be planted in cold soil.

The second growth stools wonderfully, producing several tons of excellent forage for pasture or for ensilage after the seed has been harvested. It thrives luxuriantly on soil so alkaline that field corn will not thrive. The heads are upright. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Write for quantity price.

The Wonder Forage Plant

A & M Wonder Forage is a great improvement over other sorghums, one acre of the former being equal to two or three of the latter. It stools from ten to forty full-sized stems, the thickness of a thumb and smaller, and when the main stems mature separate branches grow from each joint bearing more seed heads. It grows 10-12 feet high.

The stems are succulent and sweet as saccharine cane, not dry as non-saccharine cane, therefore, it is as good as sorghum for dairy cows and will yield twice the tonnage.

Wonder Forage can be cut twice with good soil and ample irrigation.

For a rich green feed grow the Wonder Forage. Five pounds of seed are sufficient to drill an acre in rows 30 inches apart or 20 pounds per acre broadcast.

(Lb. 30c) (10 lbs. \$2.75) postpaid. Write us for quantity price.

Sudan Grass

Has made good and has become more popular each year. It is not particular as to soil—endures much alkali—an annual—planted during April, first cutting in 60 days may yield four tons of dry hay per acre and three to four tons may be cut each thirty days until October.

Five pounds of seed is required to drill an acre in order to produce hay of fine quality, or 20 pounds per acre broadcast.

Sudan Grass thrives with excessive moisture and endures extreme drouth. In the months of August and September, when all other grasses are dry, then is the time that Sudan is most valuable for fall pasture for cattle and hogs.

Sudan Grass is ideal for growing with the Whip-Poor-Will Cow Peas. The stem is stiff enough to support the vines. (Per lb. 20c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Clover for Forage

Melilotus alba This is a valuable addition to the farm as a forage crop. When quite young, it may be pastured or cut and cured for hay. This should be done just before the bloom appears. It is hardier than alfalfa, more drought-resistant, and better for renovating the soil. It may be cut twice the first season and three or four times the second season, yielding 2,500 to 3,000 lbs. of hay each cutting. It is as easy as alfalfa to eradicate, is biennial. On account of its hardiness to resist extreme cold, heat and drought it is grown largely for pasture. It is highly recommended by the Department of Agriculture. Sow 20 lbs. per acre. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

Ladino Clover A new green feed for poultry. This recent introduction from Italy has proven to be a remarkable discovery as a green feed for poultry. It yields far more abundantly and withstands frost much better than Alfalfa. Each plant sends out runners 12 inches long and each joint takes a new root. Sow seed sparingly at 1 lb. to $\frac{1}{2}$ acre to allow for this spreading. It can be cut continuously throughout the entire year and makes good pasturage. Needs plenty of moisture. (Per lb. \$1.10) (10 lbs. \$10.50) postpaid.

Hubam Clover Hubam is a rapid growing annual sweet clover attaining height of 7 feet. It is valuable as a catch crop, for pasturage and as a hay crop. The flowers are rich in honey and on this account it is sown freely by bee keepers. Planted in citrus groves in February or March it forms a perfect cover crop. Sow 12-15 lbs. per acre. (Per lb. 45c) (10 lbs. \$4.00) postpaid.

Red Clover (Common) There is a place for Red clover, but not where alfalfa thrives. It is hardier than alfalfa, therefore we recommend it for higher altitudes or farther north than the San Joaquin Valley where it will not be subject to the hot dry atmosphere of the interior valleys nor to the climate of Southern California. Sow 20 lbs. per acre. (Per lb. 45c) (10 lbs. \$4.00) postpaid. Write for quantity price.

Mammoth Red Clover In England and in English Colonies this clover is called "Cow Grass." The name recommends it for dairymen. The same instructions for common Red Clover apply also to Mammoth Red Clover. (Per lb. 45c) (10 lbs. \$4.00) postpaid. Write for quantity price.

Alsike or Swedish Clover This is one of the hardiest varieties known. It is perennial and does not winter kill. It will do better on moist land than any other variety of clover, and is suitable for either hay or pasture. When sown with other grasses it forms a thick undergrowth and greatly increases the yield. Sow 20 lbs. per acre. (Per lb. 45c) (10 lbs. \$4.00) postpaid. Write for quantity price.

A & M



Alfalfa

Chilean or Common This variety has proven so entirely satisfactory to everyone for years that nothing better was looked for, and is indeed now so thoroughly satisfactory that many will hesitate to believe that any variety of alfalfa can be better. Our superior brand is the best grade we can obtain and is as free from weeds as it is possible to produce. Broadcast 20 lbs. per acre. A & M Superior Brand—Highland grown (lb. 35c) (10 lbs. \$3.00). A & M Fancy Brand (lb. 30c) (10 lbs. \$2.50). Write for quantity price.

Hairy Peruvian We first offered this variety in 1918. It is hardier and it does produce more hay the first year than common alfalfa, but it does not endure as well. Many large growers now prefer the common alfalfa. With these comments we offer the Hairy Peruvian Alfalfa to those who may have had better results and yet prefer it. Broadcast 20 lbs. per acre. (Lb. 35c) (10 lbs. \$3.00). Write for quantity price.



Wonder Forage

CROPS FOR SOIL RENOVATION

Inoculate with McQueen's Inoculator—See Page 90

Winter Crops

Melilotus alba We have come to the conclusion that, except on sandy soils, it is better to broadcast the seed than to drill it. This is especially true where there is alkali. Sweet-clover seed should be very close to the surface. A light harrowing or dragging with a light brush drag, will mix the seed with the soil sufficiently for germination. It is better, too, to sow the seed in the fall and let the rains bring it up. It gets a better start that way.

Melilotus alba is being recognized more and more each season as a valuable soil renovator. Because of its large and extensive root system penetrating deep into hard subsoil, there decaying, permits moisture to enter and break up the hardpan that plowing may become deeper and more thorough. These roots have gathered nitrogen and add much humus, all of which is essential to building up new or run-down soil.

Sow 20 lbs. per acre. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

Melilotus indica One of the best legumes for green manuring in the orchards of California, because it may be planted late in the fall after all crops have been harvested, will grow all winter with only the season's rainfall. It prevents erosion during the rainy season, is easily plowed under, is richer as a fertilizer and if allowed to stand until July will prevent much of the June drop.

Melilotus indica is the best legume with which to build up your soil during the rainy season for the summer crop to follow, particularly potatoes and melons. Sow 20 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Ask for quantity price.

Burr Clover A native clover and one of the best nitrogen-gathering crops. Needs but little moisture and will thrive on very poor soil. If your grazing lacks native grasses, plant Burr Clover. Sow 20 lbs. per acre. (Lb. 40c) (10 lbs. \$3.50) postpaid. Write for quantity price.

Canadian Field Pea When it is too late to plant Vetch or Melilotus plant Canadian Peas. They may be planted as late as January and yet be plowed under in time for planting a summer crop. If your summer crop, like melons and potatoes are not harvested until November, plant Canadian Peas.

Neither is the Canadian Pea inferior to other cover crops when planted at the right time which is from September to February. If the soil is too wet after planting the seed will rot. Broadcast 50-60 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Purple Vetch The chief value of Purple Vetch lies in its rapid growth. It does not have the same tendency to stop growing when the thermometer registered around 26 degrees as do many other varieties of cover crop. However it does not stand quite as much cold as melilotus indica. It is one of the leading cover crops for planting during the rainy season in citrus orchards and for this purpose 60 lbs. should be sown to the acre. It is also a valuable crop for hay or silage. (Lb. 25c) (10 lbs. \$1.75). Write for quantity price.

Common Vetch This variety also makes an excellent cover crop for fall sowing and is commonly sown with oats, wheat, rye or barley. When grown together the vetch is held off the ground and at the same time fertilizes the grain crop. For this intention sow 30 lbs. grain and 20 lbs. vetch to acre, or if planted alone, 60 lbs. of vetch per acre. (Per lb. 25c) (10 lbs. \$1.75). Write for quantity price.

Broad Windsor Bean Sometimes called Horse Beans, grows upright on a single stem bearing a profusion of large well-filled pods. The roots are enormously productive of nitrogen. It will withstand 28° temperature; therefore, may be planted as late as September for best results as a winter cover crop. Sow 60-80 lbs. per acre. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Small Windsor (Small Horse Bean) This is identical with the Large Horse Bean except that it will not grow as large, but is preferred by many for green manuring because of the smallness of the seed it requires fewer pounds to plant an acre and it is argued that more plants per acre will produce more nitrogen. Sow 40-50 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

White Mustard (Brassica alba). This white seeded mustard has yellow flowers and is thus sometimes called Yellow Mustard. It grows very rapidly and is now used extensively as a cover crop. Sow 10-15 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid.

Trieste Mustard (Brassica juncea.) The most commonly used mustard. Although not so rapid in growth as the white mustard it makes a heavier tonnage. Sow 6 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid.

Wild Black Mustard (Brassica Nigra). Used to some extent for a cover crop. Sow 8-10 lbs. per acre. (Per lb. 20c) (10 lbs. \$1.50) postpaid.

Malva (Button Weed). Does a little better on poor soils than mustard. Sow 15-20 lbs. per acre. (Per lb. 25c) (10 lbs. \$2.00) postpaid.

Summer Crops

Whip-poor-Will Cow Pea For many years the Whip-Poor-Will has been the standard summer crop for green manuring not only here but throughout the South.

(1) It will grow on practically all kinds of soils, whether sandy or clay, poor or fertile.

(2) It is of the easiest culture.

(3) It has a big, strong, deep-root system, well supplied with large nitrogen gathering nodules.

(4) It revels in summer heat, and is extremely drought-resistant.

(5) It grows very rapidly, shading the soil from excessive heat, and leaving no room for noxious weeds.

(6) It greatly benefits the succeeding crop by accumulation of nitrogen in the soil.

(7) It leaves the soil in fine physical condition for the fall planting of grain or other winter crop.

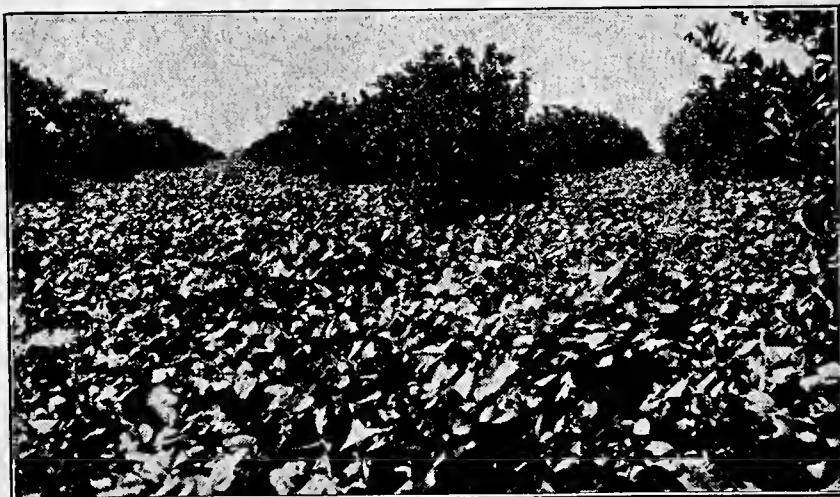
(8) It produces an abundance of highly nutritious pods and leaves in a few months.

(9) It may be made into hay or ensilage, or pastured, the seeds may be used for stock feed or human consumption.

Plant 40 lbs. per acre any time from April 1st until Sept. 1st. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Brabham Cow Pea It has only recently been determined definitely that the Brabham is resistant to nematode. This discovery places the Brabham foremost as a desirable summer crop for green manuring. Few districts are free from nematode and while other crops nursed it thus spreading it over wider territory, the Brabham will discourage its development and if repeatedly planted may eradicate it from the field in which the Brabham is grown.

Under the light of the discovery that the Brabham pea is resistant to the nematode, to plant it would seem the wiser thing to do. Sow 40 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) prepaid. Write for quantity price.



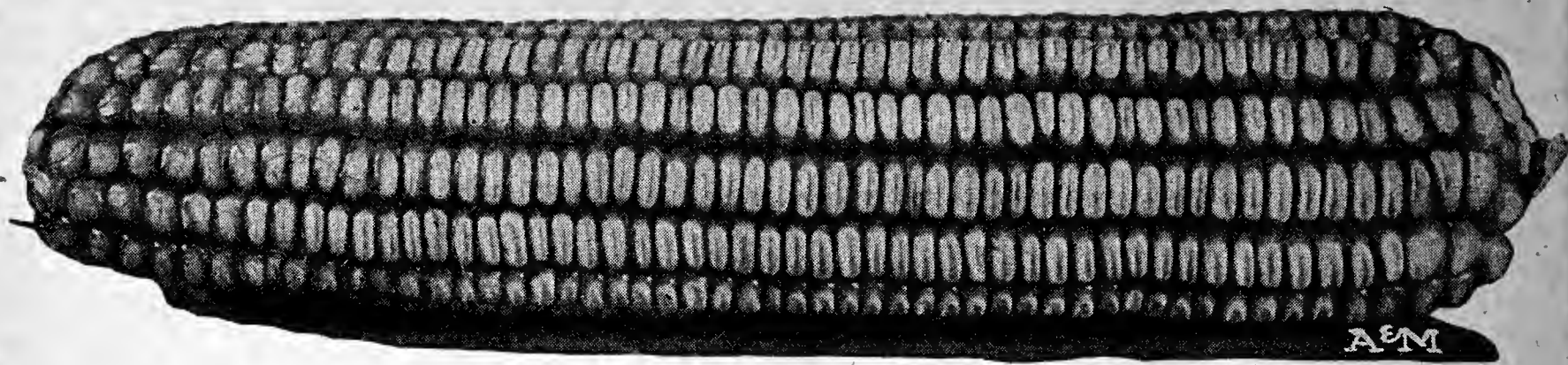
Cow Peas In Orchard

Sesbania Valuable cover crop for hot sections only. Seed is usually sown at the rate of 40 lbs. per acre in May or June. With five or six irrigations a dense tall growth is obtained in two months. Early in August the crop may be plowed under with a disk plow and the stalks will rapidly rot. Very worthwhile cover crop for orchard and lettuce land. (Per lb. 25c) (10 lbs. \$2.00). Write for circular.

The Blackeye This bean is always profitable to the grower because it yields 1500 to 2500 pounds per acre without irrigation, and on almost any kind of soil. It is a good cover crop and soil renovator. The beans find ready market at a fair price. Rabbits will not eat the Blackeye. Plant 30 to 40 lbs. per acre. (Per lb. 20c) (10 lbs. \$1.75) prepaid. Write for quantity price.

Soy Bean The Soy Bean is being more generally used as its merits become known. The importation of the Soy Bean from the Orient makes it unprofitable to grow for commercial beans or for seed but for early spring planting, for June cover crop and for green manuring it is very valuable and under certain conditions of soil may be preferred to clover or vetch. It is harder than the cow pea and on that account may be planted earlier. It is valuable to grow in young vineyards either to be plowed under or for green feed for dairy cows. Sow 40 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) prepaid. Write for quantity price.

A & M Field Corn



Big Jim.

Sow 10-15 lbs. per acre.

ORANGE COUNTY PROLIFIC

THE MOST SATISFACTORY SILAGE CORN

Orange County Prolific was introduced by us in 1911. At that time we had stalks on exhibition with nine ears of commercial size and others that were smaller.

The season just past indicates, by numerous testimonials, that Orange County Prolific corn leads all other varieties both for corn or silage.

We have a report that the Orange County Prolific planted July 25th produced 28 tons per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity prices.

Mexican June The corn for the arid southwest. When the white man was a pioneer in Arizona and New Mexico, he tried to grow corn but failed. The country and climate were condemned; corn could not be grown, but thanks to the good work of the various state and federal experiment stations, we have the Mexican June. This has been bred up by years of selection from seed which has existed among the Indians from time antedating the Aztecs. Imperial Valley growers realized its merits some years ago. In Arizona, New Mexico and Texas, it is now grown where no other variety will thrive. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

A & M Ensilage Corn This has long been a favorite for the silo and there is no other corn we know that will take its place. It is very stalky, stands up well and yields a heavy tonnage per acre. Under irrigation and on good soil it has produced more ensilage than any other corn. If you want ensilage and plenty of it plant A & M Ensilage Corn. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Hickory King An early white corn with exceptionally large kernels. It is very prolific and besides being planted extensively for grain it is useful for ensilage and is also very fine for hominy purposes. Matures in 110 days. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Big Jim Very fine variety of yellow dent corn. The large ears averaging 12 inches in length are very prolific, producing an extraordinary heavy acreage yield. It is also very desirable for ensilage, as the stalks attain a great height with a big leaf growth. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

King Philip A yellow dent 90-day corn planted quite extensively in California for grain. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Grain Crops

WHEAT

Sow 60 Pounds per acre.

Defiance One big drawback against growing wheat in California has been rust, but this has been largely overcome by planting the Defiance variety where cool, moist weather conditions prevail. This variety is practically rust-proof. Defiance is a late wheat and should be planted early and seeded thin. It is non-shattering and classed as a hard white wheat, and number one for milling. Write for prices.

Sonora This variety is recommended because of its large yield, earliness and drought resistance. It is susceptible to rust and inclined to shatter, but it has long been a standard variety in Southern California back from the coast. It is classed as a soft white wheat. Write for prices.

Early Baart Early Baart Wheat is the right variety for the interior valleys. Favorable reports have come from San Joaquin and Imperial indicating that this variety will yield 20 sacks per acre under dry conditions that would impair other crops. Write for prices.

OATS

Sow 70 to 100 Pounds per Acre

Texas Red (Rust Proof)—This is one of the few varieties profitable to plant here. We have this on hand during the planting season.

Texas Red Oats—Grown in Texas.

Texas Red Oats—Grown in California. Write for prices.

SUNFLOWER

Sunflower stalks are rich in potash, plow them under, do not waste them.

Mammoth Russian Should be planted largely for seed or silage. It makes a good wind-break around your garden. It is a valuable plant that grows anywhere with little attention.

(Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

BARLEY

Sow 60 to 80 Pounds per Acre.

Several other plants furnish good winter pasture, but none are so valuable as Barley. It affords grazing earlier, and more abundantly. It recovers more rapidly after being grazed down. It is more relished by stock and more wholesome. It stands up so that stock can eat it with less dirt or other objectionable matter, and it is never affected by rust. Sown in September it affords good grazing until May, but if the stock are taken off in March, a good crop of grain can be harvested.

Barley sown in an alfalfa field during October will make good pasture during the winter when alfalfa is dormant, or it may be grown for hay without injury to the alfalfa.

We aim always to have the best it is possible to procure.

Bearded Barley and Beardless Barley. Write for prices.

RYE

Sow 60 Pounds per Acre.

Although Rye is sown largely for early winter pastures, green manuring and a limited acreage for the straw, it should be grown more largely for the grain, which is now in great demand. Write for prices.

BROOM CORN

Dwarf Evergreen This is the standard because it is easily harvested and in quality there is none better. It is the best to plant throughout the Southwest. Plant 5-8 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

DWARF ESSEX RAPE

Pasture for Hogs, Sheep and Poultry

There is a need and a place for an extra quick growing green forage crop for use any time during fall, winter and spring, and our Dwarf Essex Rape fills that need exactly.

Rape can never become a pest as it belongs to the same general family as the turnip and rutabaga, and when planted under favorable conditions of soil and season, it makes an immense crop of green forage, juicy and succulent, and often at a time of year when little green feed is available. Plant 10 lbs. per acre. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Grasses

AUSTRALIAN RYE GRASS

Used extensively for lawns, particularly in the Imperial Valley, Salt River Valley, Arizona, and similar climates. It grows faster than Blue Grass, is coarser and will stand considerable abuse or neglect. For back yards, where it might be walked over frequently or where children play, it is a very good grass. (Lb. 30c) (10 lbs. \$2.50) postpaid. Ask for quantity price.

PACIFIC DOMESTIC RYE GRASS

Seed of this variety is similar to Italian Rye. It is very quick growing and hardy and produces a large amount of nutritious herbage. Its duration being but two or three years, it is not adapted for permanent pastures, yet highly valuable for rotation of crops. It is especially adapted for sowing in autumn with oats, barley, rye or clover, as a catch crop for fattening stock. Sow 30 lbs. per acre. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

PACEY'S RYE GRASS

An excellent hardy grass for the coast range, on hillsides and meadows. Also a splendid durable lawn grass. It resists drouth wonderfully and is quick to recover after a slight rainfall. Sow 30 lbs. per acre. Imported seed. (Per lb. 30c) (10 lbs. \$2.50). Write for quantity price.

CHEWINGS FESCUE

One of the best grasses to sow in a meadow. Mixed with Red Top and White Clover it is a valuable pasture grass. It is also suitable for lawns and putting greens. Sow 20 lbs. per acre. (Per lb. 45c) (10 lbs. \$4.00). Write for quantity price.

MEADOW FESCUE

A hardy perennial grass growing to a height of 15-30 inches. The leaves are bright green and very succulent making a good pasture grass. It is recommended in combination with Ladino clover. Sow 25 lbs. per acre. (Per lb. 40c) (10 lbs. \$3.50) postpaid. Write for quantity price.

RED TOP (Agrostis vulgaris)

Red Top is a perennial grass which grows from a few inches to five feet in height under varying conditions of soil and climate. But the average height is probably 18 to 20 inches. It is now more highly esteemed as a pasture grass than for a hay. No other useful grass would seem so well adapted for growing in wet situations, even in places so moist as to be saturated with water for a considerable portion of the late autumn and the early spring. Soil should be carefully prepared, thoroughly pulverized and clean of weeds. Sow broadcast 14 lbs. of seed per acre. Also planted with other grasses for lawns. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

RUSSIAN BROME (Bromus inermis)

Bromus inermis is one of our hardiest perennial grasses; no amount of cold will kill it. It withstands the severest drought, and water may stand on it for weeks. It will grow on any rich soil.

It requires twenty pounds of seed per acre. Russian Brome Grass is essentially a winter pasture grass, but it also makes good hay. All kinds of stock are fond of it, and no other grass, unless it be orchard grass, will furnish grazing for so large a portion of the year. Its producing and feeding value for hay is about equal to that of timothy. (Per lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity price.

Lawn Grasses—See Page 36

FERTILIZERS

WRITE FOR QUANTITY PRICE

A & M PLANT FOOD for Potted Plants

This concentrated plant food should be used by all who grow plants of any kind in pots, such as ferns, hanging baskets, also for roses and in window boxes. You have, no doubt, often noticed pale and sickly looking foliage on your plants. A & M Plant Food will restore the color and promote the growth. It is packed in a convenient, sealed 2-lb. package. Will not deteriorate after being opened and, very important, it can be kept in house without discomfort. Per pkg. 30c, f.o.b. Los Angeles.

ADCO

ADCO is a powder which when mixed with any non-woody vegetable waste such as grass cuttings, straw, corn stalks, dry leaves and other garden refuse gradually converts the mass into real manure fully equal to the farmyard product in fertilizing, but free from unpleasant odor, flies, weed seeds, etc. Any one can make Adco Manure. The process is perfectly simple. Use 1 lb. of Adco to every four cubic feet of debris. Write for circular giving full particulars. 5 lbs. 75c, 25 lb. bag \$2.85, 100 lb. bag \$10.00, 150 lb. bag \$14.00, f.o.b. Los Angeles.

ORCHARD COCKSFOOT (Dactylis glomerata)

This grass does well sown either with or without other grasses. It is frequently sown in such pasture mixtures as white clover, red clover and rye grass. If sown alone, 25 or 30 lbs. of the Cocksfoot seed will insure a good stand of grass. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

HARDING GRASS

This grass is a true perennial, one seeding being good for years. It cannot become a pest because all spread is from the crown. It never bloats. Will stand heavy tramping of sheep or cattle. Old pastures or burned over land should be sown after the heavy winter rains have set in. (Per lb. \$2.00) postpaid.

RHODES (Chloris Gayana)

Rhodes grass does not grow underground sprouts like Johnson or Bermuda grass, but sends runners over the surface like the strawberry plant. It is easily eradicated.

Rhodes Grass will smother Bermuda and other weeds because of its dense growth. It is easily eradicated by being plowed once and let stand for sixty or ninety days. It grows on alkali lands and adds humus to the soil.

The best time to plant Rhodes Grass is from March 1st to August 1st. Broadcast twelve pounds of seed per acre. (Per lb. 75c) (10 lbs. \$6.50) postpaid. Write for quantity price.

DALLAS (Paspalum dilatatum)

Grows on any kind of soil—endures some alkali—excellent for permanent pasture on marsh or mesa—grows winter and summer with moisture—excellent for hay—may be cut every six weeks—becomes dormant with drouth but revives with less moisture than any other grass, yet will survive if submerged for several weeks—stools and seeds freely.

The seed takes root among the weeds and devil grass, choking out everything in its way. The dense matting roots make a thick sod capable of supporting the cattle on marshy land. The stock relish it fully as well as alfalfa. It is as easy to eradicate as Timothy or as any other bunch grass. Ten pounds is sufficient to sow 1 acre broadcast. It thrives in high altitude. (Per lb. 75c) (10 lbs. \$7.00) postpaid. Write for quantity price.

BERMUDA (Cynodon dactylon)

Bermuda Grass is unquestionably the best pasture grass in the south, viewed from the standpoint of palatability, productiveness and endurance. There are reasons for believing that in its proper sphere it will produce more grazing and more meat than blue grass under the most favored conditions. Sheep can graze upon it from 7 to 9 months in the year according to locality. Sow seed during May and June, five pounds per acre. (Per lb. 40c) (10 lbs. \$3.50) postpaid. Write for quantity price.

ALFILARIA (Erodium cicutarium)

Alfilaria or "filaree" grows wild without any attention in all classes and conditions of soil except swamps and excessive alkali. Soon after the first heavy fall rains have saturated the ground the "filaree" begins to make its appearance. It is good pasturage at all stages of its growth, even when mature and dried up. In nutritive qualities it compares favorably with alfalfa and live stock of all kinds fatten on it readily. It is hardy even where the winter temperature reaches zero or below.

Sow 10 pounds of seed per acre. Sow just before the rainy season. (Per lb. \$1.50) postpaid.

FULTON'S Plantabbs

ODORLESS PLANT FOOD TABLETS

Plantabbs are ideal as a food and stimulant for potted and outdoor plants. They begin to feed plants at once and improvement is usually noticed in ten days or less. One Plantabb placed in the vase will prolong the life of cut flowers. 30-Tablet pkt. 25c, 75-tablet pkt. 50c, 200-tablet pkt. \$1.00, 1,000-tablet pkt. \$3.50. Postage extra.



Fertilizers Continued on Next Page

FERTILIZERS—Continued

A & M Velvet
Plant Food

Quick and Lasting Results

A & M Velvet Plant Food is a scientifically prepared chemical compound carrying the necessary elements for the promotion of plant growth.

It not only enhances the beauty of the blossom and the color of the lawn, but it is a wonderful stimulant to vegetable life, and, in addition to its many uses in the garden, it can be applied with wonderful results in the field for vegetables and other crops.

This plant food is easy to apply and it is in powder form and quickly available.

25-pound bag \$1.15 50-lb. bag \$2.00 100-lb. bag \$3.50
F. O. B. Los Angeles.

VIGORO
Complete plant food

Vigoro is a nationally known complete plant food. It is quick acting and the beneficial effect on vegetation is immediate and lasting. It is invaluable for all garden crops, lawns and pot plants. Apply 4 lbs. per 100 sq. ft. for garden and lawn.

12-oz. pkg.	10c	5-lb. pkg.	50c
10-lb. pkg.	85c	25-lb. bag	\$1.50
50-lb. bag	\$2.50	100-lb. bag	4.00

f.o.b. Los Angeles

VIGORO FERTILIZER
SPREADER

Every home owner needs this very handy tool for more successful gardening. It is an easy running, sturdy machine and applies plant food uniformly in a 14-inch spread at the rate of about 4 lbs. per 100 sq. feet. It is designed for use on established lawns and can be used on newly prepared soils if well firmed. It saves time and labor and is ideal for use on windy days. Weight 6 lbs. Price \$1.95, postage extra.



BANDINI STEER MANURE

Specially prepared for lawns and gardens. It is decomposed and weedless and is produced from steers fed on cottonseed meal and hulls. Per sack (about 67 lbs.) 60c, f.o.b. Los Angeles.

SHEEP MANURE

With barnyard fertilizer becoming more and more scarce we offer, as perhaps the best substitute, our special brand sheep manure. It may be used for mulching lawns or as a fertilizer and the results are usually very satisfactory. For mulching the lawn it requires about one sack to 500 square feet. In comparison with barnyard fertilizer this may be slightly higher in price, but a saving will be made in the time spent pulling weeds for sheep manure carries very few weed seeds, if any. Per 100 lb. sack \$2.00, \$30.00 per ton, f.o.b. Los Angeles.

LEAF MOLD

We exercise the greatest care in the selection of our Leaf Mold. For home gardeners who are growing their own plants Leaf Mold will be a great assistance for mixing in with the soil and for using as a covering for the seed. A mixture of about one-fourth or one-third Leaf Mold with good loamy soil makes a very nice combination for the growing of young plants in flats. Where seeds are sown in the open a light covering of Leaf Mold on the row or the seed bed will assist in holding the moisture and secure a better germination. Per sack (about 20 lbs.) 75c; 5-sack lots 70c per sack, f.o.b. Los Angeles.

PEAT MOSS

Peat Moss is a valuable soil improver for all horticultural and agricultural purposes. It consists chiefly of decomposed vegetable or organic matter and increases the humus content of the soil. It absorbs ten times its weight in water, releasing it for the plants in periods of drought. Use Peat Moss liberally on flower and vegetable gardens and on lawns. Mulch roses, fruit trees, etc. to conserve moisture. Dahlias and other tubers may be safely stored in Peat Moss. A bale of Peat Moss when loosened will cover 700 sq. ft. Per bale (about 150 lbs.) \$3.25 f.o.b. Los Angeles.

PEAT HUMUS—RADIO BRAND

Peat Humus is the ideal substance for maintaining soil in first class condition, thus giving plant life every assistance for vigorous growth. It contains no weed seeds, conserves moisture, and keeps the soil porous and aerated. Peat Humus should be mixed well with soil before planting seed and it will prevent baking when used as a top dressing. Our supply is fresh from the peat beds and is not dried out. Per 80 lb. sack 85c; 5 sack lots 80c per sack, f.o.b. Los Angeles.

A & M HYDRATED LIME

Most soils may be improved by applying lime. Spade the soil, broadcast lime on the surface and rake it in. Most plants which grow in the sun are benefitted by lime and it may be applied at any stage of their growth. An annual application of lime on the lawn will correct acidity and help to exterminate sorrel and other weeds which thrive in an acid soil. Price: 4 lb. carton 25c; 50 lb. sack 85c; f.o.b. Los Angeles.

GYPSUM

Gypsum brings about a mechanical change in the soil by making it more pervious to water and air. Very heavy adobe soils are much improved with an application of Gypsum which loosens it and this condition tends to prevent packing. It is also used in the treatment of soil containing black alkali. 100-lb. sack \$1.25, 5 sacks \$1.10 per sack, ton lots 95c per 100 lbs, f. o. b. Los Angeles.

METCO IRON OXIDE

Produces healthier growth and more colorful flowers. Also very effective in control of snails, slugs and other soil pests. Non-poisonous. (5 lbs. 45c) (10 lbs. 75c) (20 lbs. \$1.35) (50 lbs. \$3.00) (100 lbs. \$5.00). Postage or freight extra.

Ammonium Sulphate Contains about 20% nitrogen. Unlike Nitrate of Soda it has a slight acid reaction on the soil and is therefore better for acid loving plants. For garden use rake the soil 1 lb. to every 150 sq. ft. One lb. is sufficient for any 1-year-old tree or 1½ lbs. for a 2-year-old tree. For field crops apply 100 lbs. per acre. (25 lbs. \$1) (50 lbs. \$1.75) (100 lbs. \$3.00) f.o.b. Los Angeles.

Nitrate of Soda Contains about 15% nitrogen. Is very quick in action and entirely soluble. Is best applied after the plants are growing. (25 lbs. \$1.25) (50 lbs. \$2.00) (100 lbs. \$3.50) f.o.b. Los Angeles.

Super-Phosphate Phosphorus is of paramount importance; it hastens maturity of plants and performs an important function in the development of the root system. Contains 19% phosphoric acid and is quick in action. (25 lbs. 85c) (50 lbs. \$1.50) (100 lbs. \$2.50) f.o.b. Los Angeles.

Fish Fertilizer This fertilizer is composed of dried fish, finely ground, and is purely organic. An excellent fertilizer for all crops. Will last for several crops without the need of other fertilizer. Contains 9% nitrogen, 6% phosphoric acid. (25 lbs. \$1.00) (50 lbs. \$1.65) (100 lbs. \$2.75) f.o.b. Los Angeles.

Dried Blood Meal Is very rich in nitrogen and an excellent plant-food for increasing the yield of vegetables and fruit, and also for stimulating the growth of flowers. There is from 12 to 13% nitrogen. (25 lbs. \$1.10) (50 lbs. \$2.00) (100 lbs. \$3.75) f.o.b. Los Angeles.

Bone Meal Contains 1% nitrogen, 30% phosphoric acid. Slow but lasting in action. Excellent for promoting root growth, and the best fertilizer for bulb culture. (25 lbs. 95c) (50 lbs. \$1.75) (100 lbs. \$2.65) f.o.b. Los Angeles.

TORO BRAND SULPHUR



The application of sulphur to the soil to increase crop production is now a proven and accepted fact. In addition to its fertilizing qualities it is giving excellent results in the control of potato scab. It loosens hard cement-like soil, is active in controlling fungus, produces a better quality of fruit and is generally beneficial to all crops.

Toro Brand Sulphur may be applied in irrigated districts at any time and in non-irrigated districts just before plowing, so that it will get the benefit of winter rains. It may be drilled in with a fertilizer drill or broadcast by hand and then plowed or cultivated in.

In orchards use four pounds to the tree, where trees are four years of age, and for older trees a little more may be used.

For vines, grains, alfalfa, beans and all other surface crops use about two sacks per acre. Within six months trees or crops usually begin to show results which continue into the second, third and fourth years. Toro Sulphur is packed 100 lbs. to sack. 1 sack \$3.75, 5-sack lots \$3.65 per sack, f.o.b. Los Angeles.

Sulphur for Dusting—See Page 86



SPRAYING PAYS

ACME Insecticides and Fungicides

A RELIABLE BRAND



Acme All Round Spray

"A Triple Service"



All Round Spray comes as a boon to the small user who wants to give complete protection to plants about the home, yet is unfamiliar with the pests to be combatted and finds it too much bother and expense to buy two or three different items in order to be sure to hit the exact cause of trouble.

All Round Spray will sweep away your insect troubles. A triple service product composed of the popular remedies for the three major classifications of pests. Effective, yet hardly more than the price of one.

Nicotine Sulphate—to control sucking insects such as aphids (plant lice), thrip and leaf hopper.

Arsenate of Lead—to destroy the chewing insects, slugs, beetles, caterpillars, worms.

Bordeaux Mixture—to prevent blight and fungous diseases.

Complete spraying guide attached to every package.

(1/4 lb. tin 35c) (1 lb. tin 80c) f.o.b. Los Angeles. Cannot be mailed.

Acme Paris Green



For grasshopper and cutworm bait use Acme Paris Green as follows: one pound Paris Green, 10 lbs. bran, 1 quart brown molasses, 2 lemons chopped fine. Add water to make a crumbly mass and broadcast in the field for grasshoppers. For cutworms place the bait about the garden

in the evening. This poison should not be used on vegetables. For this purpose we recommend Garden Guard. (1 lb. carton 60c) (5 lb. carton \$2.10). Cannot be mailed.

Acme London Purple



The economy of using Acme London Purple lies in its superior sticking quality in addition to being reasonable in price and quick in action. Use it as a dust or as a spray. This poison should not be used on vegetables. For this purpose we recommend Garden Guard. (1 lb. carton 30c) (4 lb. paper bag 30c) (4 lb. paper bag 30c) f.o.b. Los Angeles. Write for quantity prices. Cannot be mailed.

Acme Spraying Guide

WHEN AND WHAT TO SPRAY
Write for this Fine Guide Free

Acme Garden Guard

(Non-Poisonous)

A convenient, practical and economical all round garden insecticide. It is made from Derris root and is very effective in combatting the majority of chewing insects, as well as many soft-bodied sucking insects. Can be used with great effect on squash bugs, cucumber beetles and red spider, as well as cockroaches. Should be used on green vegetable crops in place of Arsenate of Lead. (1 lb. carton 35c) (4 lb. bag 80c) (25 lb. bag \$4.00) f.o.b. Los Angeles. May be mailed.



Acme Dry Lime Sulphur



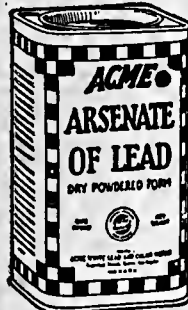
An invaluable spray for the control of fungus diseases such as peach leaf curl, mildew, peach twig borer, pear scab and many other ailments common to deciduous fruit trees. For the above spray with a mixture of 10 to 12

tablespoonfuls of Dry Lime Sulphur to one gallon of water sometime during the month of December and again in the spring when the buds begin to swell.

Peach Leaf Curl is one of the very common fungus diseases and sap oozing from the branches is an indication of this fungus. (1 lb. cans 35c) (5 lb. cans \$1.25). Write for quantity prices. May be mailed.

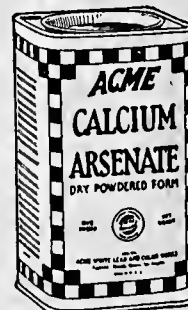
Acme Arsenate of Lead

For the control of codling moth, cabbage worms, caterpillars, beetles and all other leaf-eating or chewing insects. In mixing spray material use 3 to 4 heaping tablespoonfuls of Arsenate of Lead to 1 gal. of water. For dusting mix 1 part Arsenate of Lead to 5 or 6 parts of Hydrated Lime. This will be found effective for the Diabrotica Soror, which is the 12-spotted beetle that infests dahlias, etc. and may be used as a dust for other leaf-eating insects. This poison should not be used on vegetables. For this purpose we recommend Garden Guard. (1 lb. carton 30c) (4 lb. paper bag 70c) f.o.b. Los Angeles. Write for quantity prices. Cannot be mailed.



Acme Calcium Arsenate

Is especially valuable for use in dusting cabbage, potatoes and other crops for the control of many insects. It is extremely light and fluffy, having not less than 100 cubic inches to the lb., insuring even distribution when dusted and effective results when used as a liquid spray. (1 lb. carton 30c) (4 lb. paper bag 65c) f.o.b. Los Angeles. Write for quantity prices. Cannot be mailed.



Acme Bordeaux Mixture

Bordeaux Mixture not only stimulates plant growth but controls fungus, such as Celery Blight, Apple Black Rot, Pear Scab, Mildew Blight, and many other fungus ailments. It is probably one of the best preventatives (if there is one) of Tomato Blight and young tomato plants should be sprayed with Bordeaux Mixture from time they show through ground until they are ready for transplanting. (1 lb. carton 30c) (4 lb. paper bag 65c) (8 lb. bag \$1.25) f.o.b. Los Angeles. Write for quantity prices. Cannot be mailed.



Acme M. S. R. Dusting Sulphur

A high grade powdered sulphur put up in convenient sifter-top cans ready for use. It contains a small portion of dry lime-sulphur (to improve control in combating black spot) and a colloidal clay has been added to keep the sulphur from lumping and balling. Recommended for the control of mildew, leaf-spot, rust and red spider. 3 lb. can 40c, f.o.b. Los Angeles. Can be mailed.



Acme Spray Soap

A fish oil soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. It is also used in combination with Black Leaf 40 and Evergreen as a spreading and adhesive agent. (1 lb. 30c) (5 lbs. \$1.25) f.o.b. Los Angeles. Can be mailed.



Acme Aphis Spray



An improved nicotine spray combining a soft fish oil soap with Black Leaf 40, suitable for the control of all kinds of aphis (plant lice), thrip, leaf hopper, red spider and many more hardy insects infesting rose bushes, flowers, shrubs, vines, bushes and trees. Mixes easily with any kind of water. Complete directions found in every package. (3 oz. collapsible tube 35c) (12 oz. can 95c) (2 1/2 lb. can \$2.25). Cannot be mailed.

Acme Dawg-Gone

Protect that evergreen—keep dogs away. Remove cap and hang tube of Dawg-Gone (opening down) in the lower branches of trees at points of approach. Not necessary to place tube in every tree unless standing alone. The odor slowly emanating from the open tube will keep dogs at a distance from six months to a year winter or summer—replaces unsightly wire screens or mechanical contrivances. Mailable. Tubes 35c, 3 for \$1.00.



INSECTICIDES and SPRAY MATERIALS—Continued

Vegetable Growers Note!

There has been some controversy regarding the use of poisonous residue sprays on vegetables. Extensive experiments made of the following non-poisonous sprays have proven very effective when used in accordance with instructions: FLUCIDE, DEROCIDE, KILLSECT, KALOIL, EVERGREEN.



KALOIL

A NON-POISONOUS pyrethrum insecticide which has its own patented sulfonated oil spreader and mixes readily with any water at all temperatures without requiring soap or special preparation. Kaloil is always free flowing and is effective at all temperatures. The patented oil spreader energizes the pyrethrum, making it much more efficient, and allowing higher dilutions which makes Kaloil economical to use. Kaloil is especially effective in the elimination of such sucking insects as aphids, thrips, mites, mealy bugs and squash bugs. 1½ ozs. makes 9 gals. spray. 1½ oz. can 35c, 6 oz. can \$1.00, 32 oz. can \$3.50, 1 gal. can \$10.75.

KOLO SPRAY A non-arsenical spray containing a specially prepared sodium aluminum fluoride, which makes a spray that mixes easier with water and covers much better than old fashioned sprays. It is used whenever a wet spray is desired and is especially efficient for worms on fruit such as codling moth. Mix 2 lbs. to 50 gal. water. ½ lb. can 35c.

KALITE A quick killing non-arsenical dust which comes all ready for use. Kalite is used for chewing insects whenever dusting is required. 1 lb. 35c, 5 lbs. \$1.50, 25 lb. drum \$5.00, 100 lb. drum \$15.00.

The above 3 items may be mailed—postage extra.

EVERGREEN

KILLS ANTS AND GARDEN INSECTS

EVERGREEN is recommended for use against both sucking and chewing insects such as plant lice, cabbage worms, cut worms, thrip, cucumber beetle, rose chafer, red spider, mealy bugs, etc. It is harmless to humans, animals and birds and kills only insects.

1 oz. makes 9 gals. spray \$.35
6 " " 38 " " 1.00
16 " " 100 " " 2.00

EVERGREEN No. 20 — 2½ times stronger than Evergreen. (Gal. \$16.00) (5 gal. \$68.75).

Can be mailed; postage extra.

Fluocide Dust

Non-arsenical Dust for Worms, Beetles No. 20—Can be used on crops in place of arsenic with no resulting residues if not applied too close to harvest time. Kills alfalfa looper, cabbage worm, corn ear worm, tomato worm, caterpillars. (50 lbs. \$3.75) (100 lbs. \$7.00) f.o.b. Los Angeles.

No. 33 — Similar to No. 20 but of greater strength. (12 ozs. 30c) (5 lbs. 75c) (50 lbs. \$4.75) (100 lbs. \$9.00) f.o.b. Los Angeles. May be mailed.

Derocide

A safe, non-poisonous dust especially developed for use around harvest time—it leaves no poisonous residue. (5 lb. bag \$1.25) (50 lb. bag \$9.50) (100 lb. drum \$20.00) f.o.b. Los Angeles. May be mailed.

Killsect

A non-poisonous spray with a pyrethrum base. Can be sprayed on any crop with absolute safety at any time. (1 lb. \$1.00) (5 lbs. \$3.75) (10 lbs. \$6.50) (25 lbs. \$15.00) (50 lbs. \$27.50) (100 lbs. \$50.00) f.o.b. Los Angeles. May be mailed.



Nico Dust

NICO DUST is a dry powder insecticide killing by fumes as well as by contact. The principal ingredient is Nicotine Sulphate—the well known remedy for sucking insects. Nico dust should be applied as a dust directly to the plant with a hand or power duster. In addition to Nico Dust in several strengths we have the Nico Garden Dust for general use in the garden, controlling slugs, aphids and many other pests.

Nico Garden Dust

(12 oz. pkg. 40c) (5 lbs. pkg. \$1.75)
Cannot be mailed.

Nico Dust No. 6

6% Black Leaf 40. (1 lb. pkg. 40c) (5 lb. pkg. \$1.40) (25 lb. steel drum \$3.75) (50 lb. steel drum \$6.75) (100 lb. steel drum \$12.00). Cannot be mailed.

Nico Dust No. 8

8% Black Leaf 40. (1 lb. pkg. 45c) (5 lb. pkg. \$1.60) (25 lb. steel drum \$4.50) (50 lb. steel drum \$8.00) (100 lb. steel drum \$14.50). Cannot be mailed.

Nico Dust No. 10

10% Black Leaf 40. (1 lb. pkg. 50c) (5 lb. pkg. \$1.75) (25 lb. steel drum \$5.00) (50 lb. steel drum \$9.25) (100 lb. steel drum \$17.00). Cannot be mailed.

ALL prices are f.o.b. Los Angeles.
Send for Nico Dust Insecticide Chart.



Garden Volck

Contains nicotine and soap. A complete spray for home gardener, controlling mealy bugs, scale, aphids, thrip, red spider. (3½ oz. 35c) (pt. \$1.00)

(qt. \$1.50) (gal. \$4.20). Cannot be mailed.



Nursery Volck

Highest quality oil spray for use on foliage to control scale, mealy bugs, red spider and mites. (½ pt. 35c) (pt. 55c) (qt. 80c) (gal. \$2.00) (5 gal. \$6.75). Postage extra.



Greenhouse Volck

Especially for use on tender plants or in the greenhouse. (qt. 80c) (gal. \$2.00) (5 gal. \$6.75). Postage extra.

Blue Stone

(Sulphate of Copper)

Dissolved in water makes a good solution for treatment of seed in the prevention of fungus diseases. (Per lb. 15c) (10 lbs. \$1.40) f.o.b. Los Angeles. Small quantities may be sent by mail. Ask for prices on barrel lots.

Tree Tanglefoot

A sticky substance that may be applied to the bark of trees to protect them from all climbing insects. One application is good for 3 or 4 months and it will prevent ants from entering tree tops. Also used for tree surgery. (6 ozs. 25c) (lb. can 60c) (5 lbs. \$2.75) (10 lbs. \$5.25) f.o.b. Los Angeles. May be mailed.



DESTRUXOL

One of the finest sprays for use against aphids, thrip, lice, red spider, leaf roller hoppers and mildew. It contains Nicotine Sulphate, Cyanide, etc., the Cyanide giving off fumes which reach insect life on underside of foliage.

1 oz. makes 5 gals. \$.40
2 oz. " 10 " .65
4 oz. " 25 " .90
½ pt. " 50 " 1.40
1 pt. " 100 " 2.10
1 qt. " 200 " 3.75

Super Destruxol Emulsion

Destruxol Emulsion contains the constituents of Destruxol, to which has been added neutral mineral oils in the form of a stable emulsion. Very effective in the control of scale, red spider and aphids on citrus and other trees. Cannot be mailed.

½ pt. makes 3 gals. spray \$.35
1 qt. " 12½ " .95
½ gal. " 25 " 1.40
1 gal. " 50 " 1.80

Fungusol Emulsion

A stable emulsion containing free nicotine, copper sulphates and oils; is especially effective in the control of mildew and other fungus diseases. Also very effective in the control of thrips.

4 oz. makes 5 gals. spray... \$.90
½ pt. " 10 " .60
1 pt. " 20 " .90
1 qt. " 40 " 1.25
1 gal. " 160 " 3.75

Cannot be mailed; f.o.b. Los Angeles.

Black Leaf 40



A 40% Nicotine solution for the control of plant lice or aphids on roses and other garden plants. Must be applied in vapor form with a spray pump. Black Leaf 40 will kill all aphids or plant lice that are covered with spray material. (1 oz. 35c) (5 oz. \$1) (1 lb. bottle \$2.25) (2 lb. can \$3.35) (5 lb. can \$6.00) (10 lb. can \$8.60). Sent by express or freight only.

Anchor Dusting Sulphur



Mildew is more easily prevented than cured and there is no better preventative than Anchor Brand Sulphur, this being the highest grade sulphur manufactured.

This sulphur is also very fine for the control of Red Spider. Sunlight, moisture and high temperature are contributing factors in the creating of fumes.

(1 lb. 10c) (3 lbs. 25c) (100 lb. sack \$5.00) postage or frt. extra.

Diamond "S" Sulphur

This sulphur is used mostly for preparing a lime sulphur solution, for which purpose it is very satisfactory. Price, \$3.50 per 100 lb. sack, f. o. b. Los Angeles.

INSECTICIDES and SPRAY MATERIALS—Continued



SNAROL Kills Garden Pests

Science Provides
New Safe Method
That Does the Work
Without Fuss



Snails, Cutworms, Slugs, Grasshoppers, Sowbugs,
Earwigs, Etc., Are Exterminated

Snarol is a ready prepared meal that you simply broadcast on the ground, under the vegetation. The pests eat the meal and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls and make Snarol popular with professional gardeners and nursery men. Prices—1½-lb. package 25c; 4-lb. package 60c; 15-lb. package \$1.95; 50-lb. bags \$5.50. Cannot be mailed.

ANTROL

The National Ant Control

The Antrol system is composed of small glass containers and a special formula of syrup. Ants transmit the mild poison to the queen in the nest and soon the entire colony is destroyed.

READY-FILLED ANTROL SET

The ready-filled Antrol Set consists of four patented glass feeders filled with Antrol. This set has the advantage over the regular set of being ready to use as purchased. Price, 45c.



REGULAR ANTROL SET

The regular Antrol set consists of four special glass containers and one 4-oz. bottle of syrup—enough for two fillings. Price, 75c.

ANTROL SYRUP

(4 oz. bot. 20c) (pint 50c) (quart 90c)
(gal. \$2.75) (5 gal. \$10.00).

CANNOT BE MAILED.

Antrol Sow Bug Control

This is one of the most effective preparations for the quick control of sowbugs. Place the dry powder in situations where the pests are prevalent. Full directions on package. (1 lb. can 50c) (5 lb. can \$2.00). Cannot be mailed.

Antrol Ant Powder



Here is a new scientifically prepared ant, roach and silverfish powder that kills pests quicker. It is ideal for use wherever quick protection is needed. Easy to use—shaker top. 2-oz. can 15c, 4 oz. can 25c. Postage 5c extra.

Schrader's Ant Powder



A safe, easy and effective way of destroying ants by sprinkling powder on their trails and around the nests.

Packed in sifter cans—(2 oz. 25c) (5 oz. 50c) (12 oz. \$1.00). Postage extra.

Buhach Insect and Ant Powder

Well-known ant powder which is also very effective against flies, fleas, moths and roaches. Very useful for dusting dogs and chickens. (1½ oz. 25c) (3 oz. 50c) (6 oz. 75c) (12 oz. \$1.25) (5 lb. \$6.75) f.o.b. Los Angeles. Can be mailed.

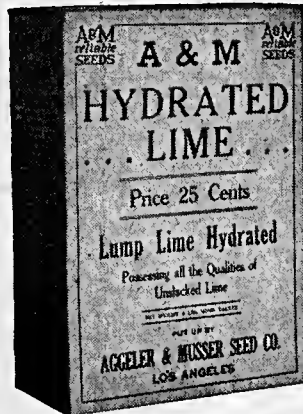
Squirrel Poison—Moore's

Poisoned wheat or barley for destruction of gophers, squirrels, crows and mice. (Small size 50c) (Medium size \$1.00) (Gallon size \$1.90) (5-gallon drums \$5.50). Cannot be mailed.

Tobacco Stems

Used extensively by nurserymen and florists for fumigating green houses. Poultrymen also use it in chicken nests. Small quantities by express 20c per lb., f.o.b. Los Angeles. Bales 80-100 lbs., \$5.00 per 100 lbs. f.o.b. Los Angeles. Prices subject to change.

A & M Hydrated Lime



An occasional application of Hydrated Lime on the lawn will correct acidity in the soil by simply being applied on the surface and sprinkled. It loosens up heavy soils and prevents packing, baking and cracking, thereby making cultivation easier. It promotes

the normal decay of organic matter in the soil. It requires about one-half as much Hydrated Lime as any other form of lime to produce the same results. 85c per 50-lb. sack, f.o.b. Los Angeles; 4-lb. cartons 25c, by mail 35c.

Cyanogas

For Wireworm, Red Ants, etc.

Wireworms can be controlled by drawing them to rows by a bait crop of cull beans and then applying Cyanogas one week later 1 inch below the bait.

For further information ask for bulletin on Wireworm Control. ½ lb. pkg. 50c, 1 lb. pkg. 75c, 5 lb. pkg. \$3.25, f.o.b. Los Angeles. Cannot be mailed.

CYANO GAS A-DUST—For the control of large red ants, gophers, etc. ½ lb. package 50c, 1 lb. package 75c; 5 lb. package, \$2.50. Cannot be mailed.



Pruning Compound

For covering fresh cuts or bruises on trees and is particularly valuable for figs, walnuts, etc. Will aid nature in healing wounds without retarding the growth of the tree. (1 Qt. Can 75c) (1 Gal. Can \$2.25) f.o.b. Los Angeles. May be sent by mail.

Tree Seal

An ideal grafting, in-arching or pruning compound and is also useful for many household purposes. (1 pt. 30c) (1 qt. 50c) (1 gal. \$1.50) (5 gal. \$6.00) f.o.b. Los Angeles. Can be mailed.

SEMESAN



A seed, plant and soil disinfectant. It will successfully prevent or control diseases of seeds without in the least impairing their vitality, but on the other hand generally increases germination, invigorates seedling growth, and develops sturdier plants. Semesan will also prevent or control the "Brown Patch" of lawns, the "Damping-off" of seedlings and cuttings, and certain soil-borne diseases. Treatments can be made in dust or liquid form. (2 oz. tin 50c) (1 lb. tin \$2.50) (5 lb. tin \$11.75) f.o.b. Los Angeles. Cannot be mailed.

Semesan Jr.

A less expensive but equally effective form of Semesan for dry dust disinfection of seed corn only. Controls diseases and at the same time increases yields from 10 to 40%. (4 oz. can 40c) (1 lb. tin \$1.50) (5 lb. tin \$7.00) f.o.b. Los Angeles. Cannot be mailed.

Semesan Bel

Applied to whole or cut seed potatoes, either as a dry powder or in liquid form, Semesan Bel will prevent or control the common seedborne potato diseases. Also very effective in treatment of Gladioli and other bulbs, and produces healthier plants. (4 oz. tins 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00) f.o.b. Los Angeles. Cannot be mailed.

Nu-Green

Recommended for brown patch control. Contains the same effective ingredients as Semesan but has the added property of quickly restoring diseased grass to normal conditions. (3 oz. can 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00) (25 lb. pail \$33.00) f.o.b. Los Angeles. Cannot be mailed.

Free Descriptive Booklets Sent
Upon Request

Carbon Bi-Sulphide

May be used for the control of the large red ant. Is used to some extent for wire worm infested soil but must be applied when there is nothing growing in the soil. (Pt. bottle 35c) (Qt. 55c) (Gal. \$2.10) (5 Gal. \$7.50) f.o.b. Los Angeles. Sent by express or freight only.

SPRAY PUMPS

UTILITY SPRAYER No. 120



Economical high-pressure sprayer for the home gardener. Tank is 6½ inches in diameter and 15 inches high. Capacity 2 gallons. The pump is 1¾ inches in diameter and 12 inches long. Equipped with ¾-inch 5-ply hose and curved brass extension pipe. Shipping weight 7½ lbs.

New No. 120-G (Old No. 220-G) Galvanized Tank, \$4.25 f.o.b. Los Angeles.

UTILITY DUMORE No. 147-B



A 4-gallon continuous high pressure sprayer adapted for all truck crops, fruit trees, flowers, etc. Large capacity brass air chamber, top end double seamed and soldered. Pump operates with long handle conveniently placed. Equipped with 3 ft. of ¾-in. 5-ply hose and 2 ft. iron extension pipe. Shipping weight 19 lbs. Price \$20.00 f.o.b. Los Angeles.

PORTABLE SPRAYERS

No. 40—Used extensively by truck gardeners and may also be used for white-washing, painting, disinfecting, etc. Capacity 18 gal. Equipped with 10 ft. of ½-in. hose, 4-ft. extension rod and nozzle. Shipping weight 85 lbs. Price, \$26.50 f.o.b. Los Angeles.

No. 40-A—Equipment and capacity same as No. 40 except that in addition it has an air pressure tank, and air gauge, making it a 1-man outfit. Shipping weight 100 lbs. Price \$39.50 f. o. b. Los Angeles.



UTILITY SPRAYER No. 125



This sprayer has a wide range of uses, being adapted for truck garden and orchard as well as the dairy barn, chicken house, etc. The tank is 7¼ inches in diameter by 20½ inches high. Capacity 4 gallons. Sturdily built of first quality materials; side seams riveted and soldered. Tested at 100 lbs. pressure. The pump is 1¾ inches by 14 inches long. Equipped with 2 feet of ¾-inch 5-ply hose and 18 inch brass curved extension pipe. Shipping weight 11 lbs.

New No. 125-G (Old No. 225-G) Galv. Tank \$6.00.

New No. 125-B (Old No. 225-B) Brass Tank \$8.50. f.o.b. Los Angeles

UTILITY SPRAYER No. 140

Similar to No. 125 but tank is 2½ gal. capacity. Shipping weight 9 lbs. New No. 140-G (Old No. 24-G) Galv. Tank \$5.75. New No. 140-B (Old No. 24-B) Brass Tank \$7.75 f.o.b. Los Angeles.

HUDSON PERFECTION SPRAYER

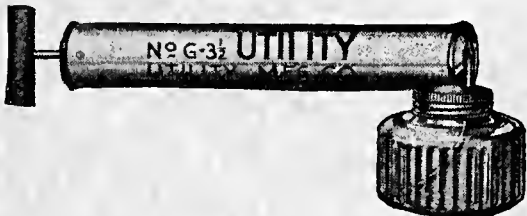
Similar to Utility No. 125. Galvanized or brass tank of 4 gal. capacity; all working parts brass. Equipped with brass extension rod. Shipping weight 12 lbs.

No. 110-G Galvanized Tank\$6.50
No. 110-B Brass Tank 9.75
(F.O.B. Los Angeles)

HUDSON JUNIOR SPRAYER

Similar to above. Galv. tank of 2½ gallon capacity; all working parts brass. Complete with hose and 1 foot brass extension rod. Shipping weight 8 lbs. Price \$4.75 f.o.b. Los Angeles.

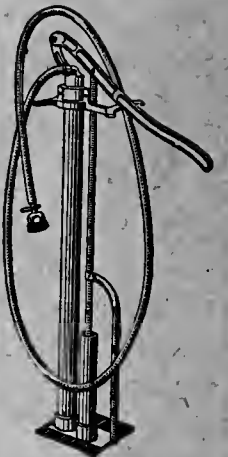
UTILITY SPRAYER No. G-3½



Midget sprayer with glass tank holding 4 ozs. 25c each. By mail 30c.

BARREL PUMPS Auto Spray No. 4

For the average small farmer or truck gardener, a pump of this size is very satisfactory. Because of its special design this pump is light in weight and consequently it is comparatively inexpensive. However, it is durable and sturdy in construction. The long air chamber stores up reserve pressure so that the nozzle throws a long continuous spray. Agitator is automatic and functions as long as pump is being operated. Pump cylinder is 1½" in diameter. Equipped with 15 feet of ¾" hose and auto-spray nozzle. Shipping weight 25 lbs. Price (without barrel) \$15.50 f. o. b. Los Angeles.



TROMBONE SPRAYER No. 5

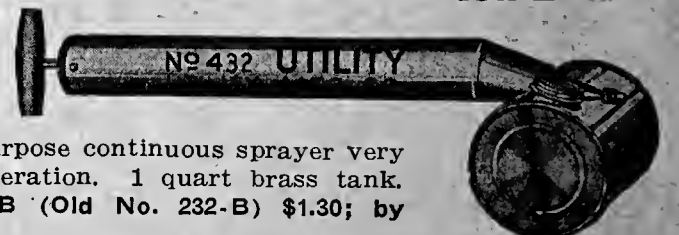


Equipped with nozzle for fine spray or straight stream. May be used for garden spraying, white-washing and disinfecting. With the smallest effort a powerful volume of spray is produced, capable of reaching the tops of average trees. It is made entirely of brass. Pump as shown above, with short hose, strainers and three spraying nozzles. Shipping weight 5 lbs.

Each \$5.00 f.o.b. Los Angeles.



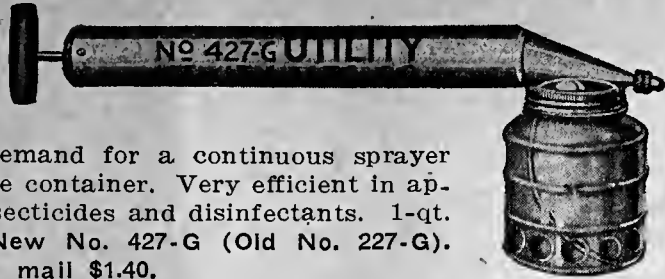
UTILITY SPRAYER No. 432-B



A general purpose continuous sprayer very efficient in operation. 1 quart brass tank. New No. 432-B (Old No. 232-B) \$1.30; by mail \$1.35.

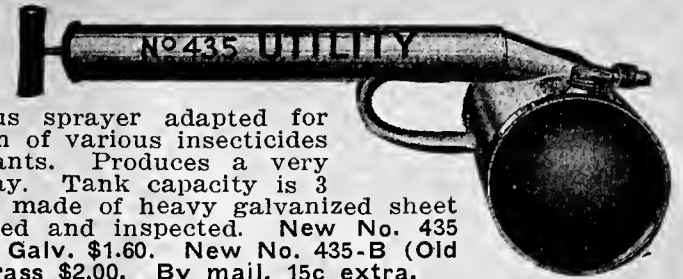
Sprayers - - Continued

UTILITY SPRAYER No. 427-G



Meets the demand for a continuous sprayer with detachable container. Very efficient in application of insecticides and disinfectants. 1-qt. glass tank. New No. 427-G (Old No. 227-G). Price \$1.30, by mail \$1.40.

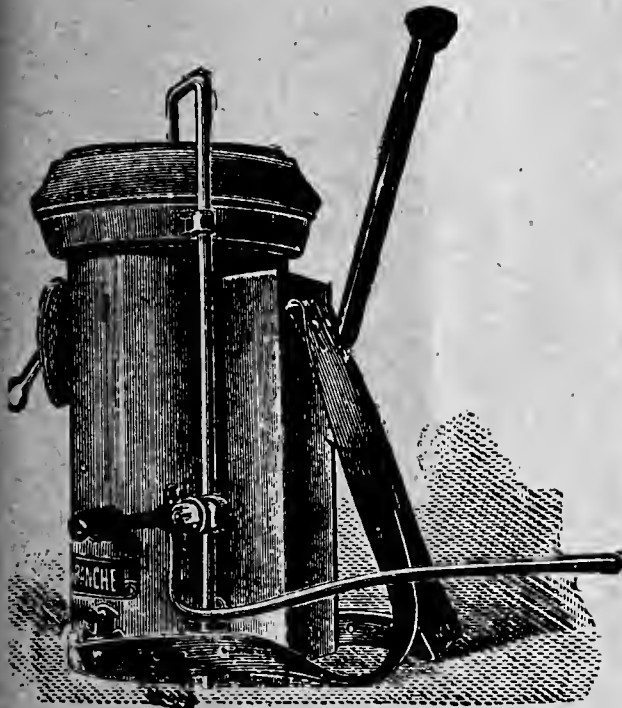
UTILITY SPRAYER No. 435



A continuous sprayer adapted for the application of various insecticides and disinfectants. Produces a very fine mist spray. Tank capacity is 3 quarts and is made of heavy galvanized sheet or brass, tested and inspected. New No. 435 (Old No. 335) Galv. \$1.60. New No. 435-B (Old No. 335-B) Brass \$2.00. By mail, 15c extra.

Dusters For Garden and Field

THE VERMOREL "TORPILLE" SULPHURING MACHINE



Without any doubt the Vermorel Sulphur Duster does the work perfectly. It has a carrying capacity of 15 pounds; it distributes the weight on the shoulders and back, leaving the hands of the man operating the machine free to work the pump and open up vines.

The sulphur, violently projected by a powerful bellows, sends out of the paddle-shaped nozzle, which can be directed at will, dust as fine as mist, thus producing highest efficiency with least sulphur. No. 1 \$16.00. No. 2, double action \$19.00, f. o. b. Los Angeles.

GRUN DUSTER

An efficient, durable duster that will handle all dusting materials such as sulphur, arsenate of lead, copper dusts, nico dust, etc.

It is strong and simple of construction with no useless screws and throws a screen of dust high and wide in a good steady flow. The 20-inch discharge pipe with its adjustable spreader is of sufficient length to dust the underside of foliage close to the ground, as well as to throw a cloud of dust 20 feet in the air. The large carrying capacity eliminates loss of time in repeated fillings and the flow is easily adjusted by the feed regulator which may be set for a light or heavy application. It has devices that grind the coarsest materials to the finest powder. It is easy to operate and easy to clean, and the most popular duster with market growers.



No. 1, capacity 22 lbs., net weight 15 lbs.\$17.00
No. 2, capacity 13½ lbs., net weight 13 lbs. 16.50
f.o.b. Los Angeles

UTILITY DUSTER No. 665



This duster handles all powdered insecticides. The powder compartment is 2¾ inches in diameter and 5 inches long, and fitted with strainer. Equipped with two 12-inch discharge tubes and two nozzle tips. New No. 665 (Old No. 265) \$1.25 each. By mail \$1.35.

UTILITY DUSTER No. 663



A favorite with the housewife for applying all kinds of insect powders. New No. 663 (Old No. 263) 50c each. By mail 60c.

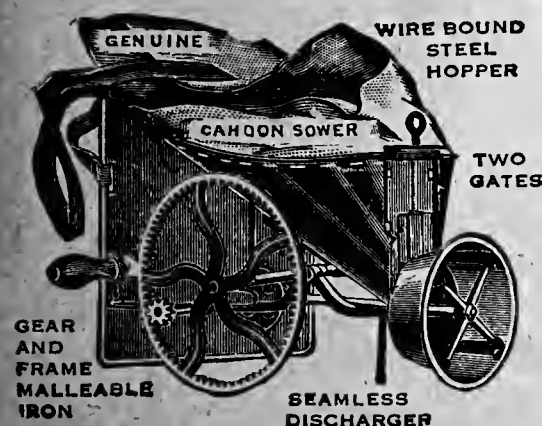
UTILITY DUSTER No. 660



A small and very popular duster for all household and small garden uses. New No. 660 (Old No. 260) 35c each. By mail 45c each.

Seeders

Cahoon Seeder



The Standard Sower acknowledged to be superior to all other hand sowers. Gives perfect satisfaction, and can be used for sowing alfalfa and grains broadcast. Sows from four to eight acres per hour at a common walking gait. A saving of four-fifths of the labor and one-third of the seed by its use. A person entirely unaccustomed to sowing by hand can use this machine with perfect success. Price \$5.50 f. o. b. here. Weight crated 8 lbs. Can be sent by mail.

Cyclone Seed Sower



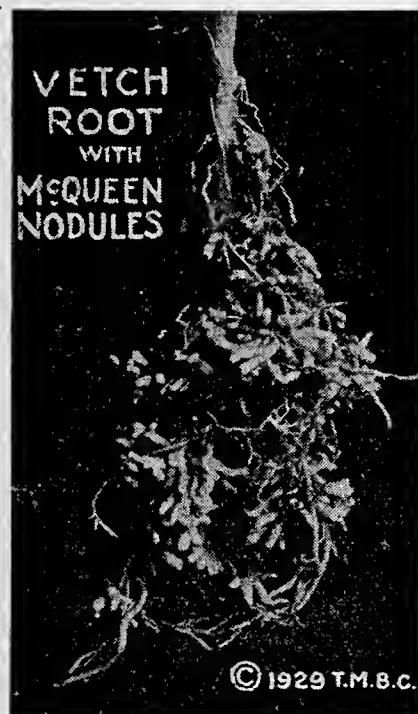
This Seeder is equipped with the following important features: Sloping feed board, automatic feed adjustment, distributing wheel, triple gears. Weight, 5 lbs. Price \$2.50, f. o. b. Los Angeles.

Planet Jr. Seeders & Cultivators

We have full line of these in stock; write for descriptive catalog.

McQueen's Inoculator

McQueen's Inoculator is a nitrogen-fixing bacteria for inoculating legumes. When the bacteria are absent the plant cannot feed on the air nitrogen but feeds on the soil nitrogen, thus making the land poorer. McQueen's Inoculator hastens maturity, increases the crop, improves its quality, enriches the soil and saves fertilizer bills. It comes in dust form and no water is needed. Only a few minutes are required to treat the seed. Do it right in the seeder or drill box. Full directions with each package. When ordering specify what seeds are to be inoculated.



FOR SMALL SEEDS

Group No. 1—Alfalfa, Sweet Clover, Hubam, Burr Clover.
Group No. 2—Alsike, Red Clover, Mammoth Clover, White Clover.

5 bushel size inoculates 300 lbs. seed.....	\$2.25
2½ bushel size inoculates 150 lbs. seed.....	1.50
1 bushel size inoculates 60 lbs. seed.....	.75
½ bushel size inoculates 30 lbs. seed.....	.50

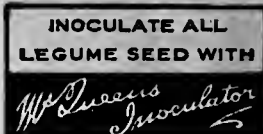
FOR LARGE SEEDS

Group No. 3—Garden and Field Peas, Vetch, Sweet Peas.
Group No. 4—Navy Beans, Bush and Pole Beans.
Group No. 5—Cow Peas, Peanuts, Lima Beans.
Group No. 6—Soy Beans.

10 bushel size inoculates 600 lbs. seed.....	\$2.25
5 bushel size inoculates 300 lbs. seed.....	1.50
2 bushel size inoculates 120 lbs. seed.....	.75
1 bushel size inoculates 60 lbs. seed.....	.50

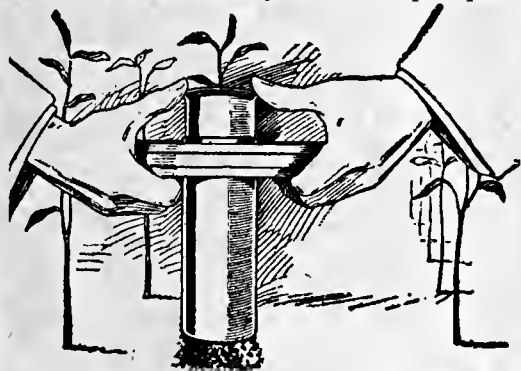
GARDEN SIZE (composite culture for Garden Beans, Garden Peas, Lima Beans and Sweet Peas)15c

IMPORTANT—Always state seed to be inoculated.



Transplanter

A Transplanter that does the work without disturbing the roots. It first makes the hole where you wish the plant, then picks up the plant root and all, without disturbing it, and sets the plant into its new location without checking its growth. A child can operate it. Just the thing for Eucalyptus growers and nurserymen. 50c postpaid.



Taken out of here - to be set in here
Transplanter



Spra-Bulb

Ideal rubber device for spraying seedlings and house plants. Can be filled with liquid or powder. 8-oz. size. Each 50c postpaid.

Simplex Weatherproof Plant Labels

These labels are made of white celluloid and protected by transparent mica covers. They are impervious to the elements and will last indefinitely. Copper wires are included. Size 3x½ inches. 40c per dozen, \$3.00 per 100, postpaid.

Weather Proof Pencils

To be used for writing labels on garden plants. Every dahlia grower should have one of these. Will not fade in sun or rain. 10c each, 3 for 25c, postpaid.

Grafting Wax

¼ lb. can—Repellent to Bees.....	\$.20
½ lb. can—Repellent to Bees.....	.35
1 lb. can—Repellent to Bees.....	.60
5 lb. can—Repellent to Bees.....	2.50
(Postpaid)	

National Eezy Wear Garden Gloves

Made from special imported hides processed to render them amazingly soft and pliable. Permit almost bare-hand freedom yet provide complete all-leather protection. Ideal for garden and similar uses. They are dirt-proof and washable. Five sizes: Nos. 6, 7 and 8 for Ladies, and Nos. 9 and 10 for Men. Price 75c pair, postpaid.



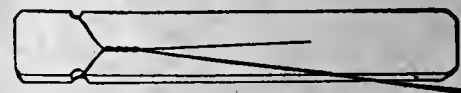
Pot Labels



PAINTED	Price Per 100	Price Per 1000
4 in.....	.30	\$ 2.50
5 in.....	.35	3.00
6 in.....	.40	3.50
8 in.....	1.00	8.75
10 in.....	1.40	12.50
12 in.....	1.65	15.00

PLAIN	Price Per 100	Price Per 1000
4 in.....	.25	\$ 2.00
5 in.....	.30	2.50
6 in.....	.35	3.00
8 in.....	.90	8.00
10 in.....	1.25	11.25
12 in.....	1.50	13.50
Postpaid.		

Tree Labels



PAINTED	Price per 100	Price per 1000
3½ in. Copper Wired.....	.40	\$3.50
3½ in. Iron Wired.....	.35	3.00
PLAIN	Price per 100	Price per 1000
3½ in. Copper Wired.....	.35	\$3.00
3½ in. Iron Wired.....	.30	2.50
Postpaid.		

Spagnum Moss

For packing. Per bale \$2.25 f. o. b. Los Angeles. Write for prices in quantity.

Green Moss

For lining hanging baskets. Per lb. 25c, postpaid. Write for prices of bale lots.

Raffia

Natural raffia for tying vegetables. Pound 45c postpaid. Write for prices on larger quantities.

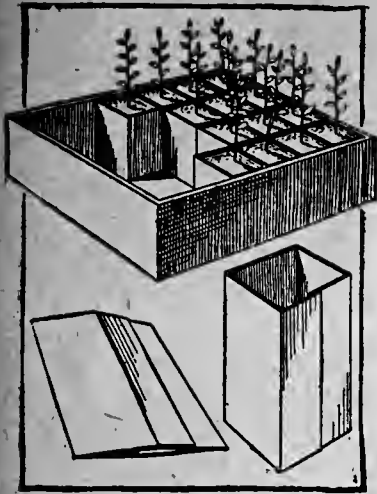
Yucca Tree Protectors

Protect the young trees from rabbits, squirrels, etc.

	Wt.	Price per 1,000	Price per 1,000
12 in.	75	\$1.30	\$12.00
14 in.	90	1.40	13.00
18 in.	125	1.75	15.50
24 in.	150	2.00	19.00
30 in.	200	2.30	22.00

F.O.B. Los Angeles





The Expan Planting Pot

Made of heavy tar paper. Open top and bottom. For propagating plants, trees and shrubs—no waste space—no breakage. For the nurseryman, florist and market gardener. You can grow melons, squash, canteloupes, cucumbers, etc., three weeks earlier in these pots than out in the open. When setting the plants in the field plant the pot and all, leaving about one inch above the top of the soil; this protects the tender plant from cut worms, wire worms, moles and field mice.

Size	Price per 1000	Price per 100	Wt. per 1000
3x4	6.25	1.35	44 lbs.
2x8	8.00	1.45	58 lbs.
2x6	6.25	1.35	44 lbs.
2x4	4.60	1.00	29 lbs.
2x3	3.75	.75	22 lbs.
1½x5	4.60	1.00	28 lbs.
1½x4	3.75	.75	22 lbs.

All prices f.o.b. Los Angeles

Pennsylvania Fruit Picker

These pickers are made of strong galvanized wire. The fruit is pulled off the branches by the hooks and is held in the receptacle just below. We do not supply handles. Each 85c, by mail 95c.

Cyclone Picking Bag

A convenient, good quality service bag especially adapted for picking apples and other hard fruits, gathering corn, etc. Made of heavy canvas with high grade steel frame. \$1.50 each. By mail \$1.60.



Murdirat

A Sure Killer for Rats and Mice

As a death-dealing device Murdirat is 100 per cent efficient and economical, yet it is absolutely harmless to humans and all domestic animals. The active ingredient is red squill, approved and recommended by the U. S. Dept. of Agriculture. (4 oz. bot., makes 60 baits—\$1.00) (1 pt. can, makes 240 baits—\$3.00) (2 qt. can, makes 480 baits—\$5.00) f.o.b. Los Angeles. Can be mailed.

Rat Scent

A specially prepared poisoned grain. The scent attracts rats and mice to the bait and the grain itself is agreeable to their taste. Place it in small piles around holes and places they frequent. It is very effective. (Small pkg. 35c) (Medium size 50c) (5 lb. tin \$2.00) (15 lb. drum \$6.00) (100 lb. tin \$25.00). Cannot be mailed.

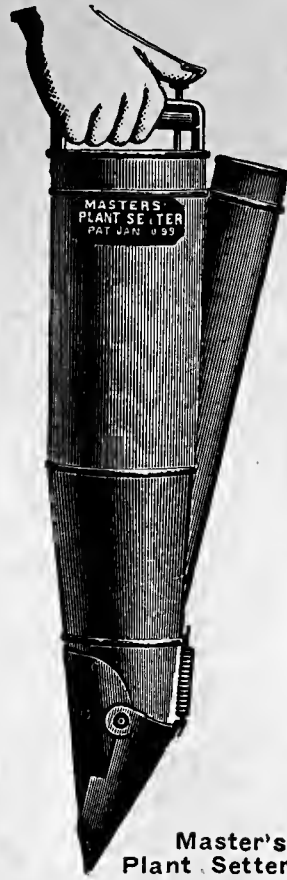
"Dead Sure Rodent Destroyer"



This rodent destroyer is in the form of a paper cartridge. After setting the fuse alight, place the cartridge down the burrow and the pests are gassed. Package of one dozen 50c—it cannot be mailed.

Gopher-Gas Balls

Are used by lighting and rolling in to the burrows of the gopher, the same as the Gopher Candle. (Per doz. 50c) (Box of 125, \$3.25) postpaid. Can be sent by mail.



Master's Plant Setter

SEGMENT CORN PLANTER

The lightest, most accurate, strongest, cheapest and most up-to-date Planter on the market. Never cracks a kernel nor skips a hill. It is always in position, never makes a wrong move. Many gardeners are using this for their replanting, and melon growers are using it to plant watermelons and cantaloupes. (See picture). Price—\$2.00 f. o. b. here. Weight, 5 lbs.

MASTER PLANT SETTER

The only hand mechanical plant setter on the market. No stooping when using it, therefore no lame backs. All kinds of plants — are set in water and covered at one operation. Wt. 10 lbs. Price —Each \$6.00 f. o. b. Ask for circular.



Segment Corn Planter.

Gopher Scent

The scent attracts the gopher and draws him to the bait. We have had some wonderful reports on Gopher Scent and feel that we cannot recommend it too highly. (Small pkt. 35c) (medium size 50c) (5 lb. tin \$2.00) (15 lb. pkg. \$6.00) (100 lb. tin \$25.00) f. o. b. Los Angeles. Cannot be mailed.



Chubbuck Double Catch Gopher Trap

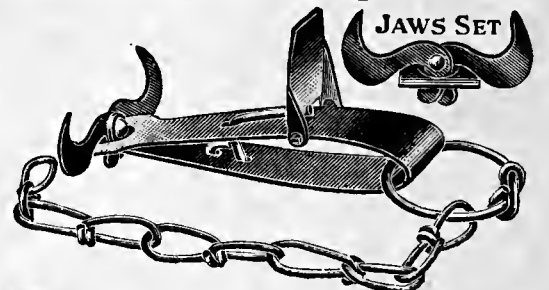


OLD GOPHER CAUGHT BY OUTSIDE SPRING

The double spring system of this trap is very effective in catching both large and small gophers. Price 60c, postpaid.

A & M Victor Gopher Trap

Because of self-setting jaws this trap is extremely easy to set and is always open when set. It fits snugly in a gopher hole without digging and it is equipped with an anchor chain. Very sturdy. Price postpaid 30c.



Macabee Gopher Trap

This is the most convenient gopher trap yet manufactured. It is easy to set, small and can be extended far down into the hole. Price postpaid, 30c.



Macabee Gopher Trap



Easy-Set Mole Trap

Box Gopher Trap

This trap is used extensively by gardeners. Is easy to set and sure. Price by mail 40c.

Easy Set Mole Trap

Catches them going and coming. A child can set it with perfect safety. Price \$1.25, by mail \$1.35.

Cyanogas for Gophers—See Page 87

BIRD SUPPLIES

HALLER'S BIRD FOODS
AND REMEDIES

We have found Haller's Bird Supplies to be a very superior line in every way. Apart from the value of the contents the bottles and containers are packed in a very efficient manner, thus preventing any deterioration through worms.

Pkg. or
Bottle

- Dutch Song Restorer**—Keeps canaries in full song. Good in cases of Asthma and Diarrhea. It never fails\$.25
- Bird Bitters**—A splendid remedy for loss of song, weakness, moulting, etc.20
- Bird Pie**—Can be fed all the year for best condition and full song. A treat..... .15
- Bird Nesting**—Essential at breeding time10
- Bird Tonic**—Call for this when the bird has a cold. It is a preventative as well as a relief for all diseases25
- Canary Color Food**—Will bring out that bright yellow in both young and old..... .25
- Moulting Food**—A tonic food for feeding during the moulting period .25

- Health Food**—Should be fed at commencement of breeding. A fine builder25
- Feather Restorer**—For bald headed birds25
- Sure Egg Maker**—Makes the hen birds lay..... .35
- Nestling Food with Cod-Liver Oil**—A bone and body builder. Essential to young birds15
- Mocking Bird Food**—For soft bill birds35
- Parrot Food**—A balanced ration for parrots25
- Parrot Tonic**—A preventative as well as cure for all diseases..... .25
- Sore and Scaly Leg Oil**—Valuable for treating stings, insect bites, etc.25
- Mite Powder in Bellows**—Useful for dusting the cage as well as the bird. Dust under the wings and the bird will spread the powder over itself..... .30
- Cage Wash**—A good spray for killing all mites and mite eggs in cages .25
- Japanese Sun Dried Pepper Pods**—Beneficial during cool weather..... .10
- Crush Hemp and Pepper**—Half teaspoonful should be fed three times weekly10
- POSTPAID
- Haller's Canary and Parrot Guide Sent Free on Application

- Bird Manna, pkg..... 15c
- Canary Seed, 1 lb..... 15c
- Hemp, 1 lb..... 10c
- Millet, large, 1 lb..... 10c
- Millet, small, 1 lb..... 10c
- Rape, Bird, 1 lb..... 10c
- Rape, Sweet German, 1 lb..... 15c
- Sunflower, 1 lb..... 10c
- Blue Poppy or Maw, 1 lb..... 30c
- Thistle, lb..... 25c
- Bird Lettuce, lb..... 30c
- Love Bird Mixture, 1 lb..... 15c
- Gold of Pleasure, 1 lb..... 50c
- A & M Gravel (2-lb. carton)..... 10c
- Cuttle Bone, each..... 05c
- (Postage extra on lb. items)

Fish Food

A & M Natural Fish Food—Contains a nicely balanced food for fish such as they would like in their natural state. Pkt. 10c.

Miller's Fish Food—A new product for giving health and vigor to the fish. Pkt. 10c.

Haller's Fish Food Wafers—A popular fish food in wafer form., 1 oz. pkt. 10c.

Haller's Tropical Fish Food—A combination of carefully selected food containing many insects found in their native haunts and of which tropical fish are so fond. 1 oz. pkt. 10c.

POSTPAID

CATNIP MICE

Your cat will enjoy a catnip mouse and you will enjoy seeing the play.
Each 10c postpaid.



A & M MIXED BIRD SEED

Specially prepared for canaries and most other birds in out-door aviaries and those caged indoors. It contains only the best cleaned seed. Each 1 lb. package also contains a small pkt. of bird gravel and a piece of cuttle bone. 1 lb. pkg. 15c (by mail 20c); 5 lb. 50c, postage extra.

A & M ROLLER MIXTURE

Prepared especially for SONG birds. It is composed of the best cleaned German Sweet Rape and first quality Canary seed in the proper proportions for the healthful sustenance of singing canaries. 1 lb. pkg. 15c (by mail 20c); 5 lb. 60c, postage extra.

Clayton's Dog and Cat Remedies



BOOK ON DOG DISEASES—AND HOW TO FEED—FREE

The success Dr. Clayton's Remedies enjoy is due to the fact that each remedy is composed of the best drugs known to science for the disease for which they are prescribed.

The pills and tablets are put up in the smallest form possible to contain the proper dose, thus making them easy to administer.

Clayton's Dog Remedies

- Sarcoptic Mange Remedy..... 60c
- Skin Lotion 60c
- Hair Tonic 60c
- Ketraline Distemper Liquid..... 60c
- Ketraline Distemper Tablets 60c
- Condition Pills with Pepsin 60c
- Alterative Pills—Blood Purifying..... 60c
- Carminative Digestive Tablets 60c
- Laxative Pills 60c
- Worm Pills 60c
- Tape Worm Expeller 60c
- Vermifuge Soft Capsules 60c
- Vermifuge 60c
- Canker Lotion Liquid 60c
- Canker Lotion Tablets 60c

- Little Red Worm Bullets 60c
- Sedative Fit Remedy 60c
- Cough Syrup 60c
- Sulphur Tablets 60c
- Puppy Tonic 60c
- Diuretic Rheumatic Tablets..... 60c
- Bowel Constrictant 60c
- Diarrhoea Remedy Liquid 60c
- Ceoline Wash and Disinfectant..... 35c
- Shampoo 25c
- Kilflea Soap 25c
- Kilflea Powder 35c
- Cream Soap 25c
- Ceoline Soap 25c
- Cod Liver Oil..... \$1.00
- Goitre Medicine \$1.00

Clayton's Cat Remedies

- Write for Clayton's "Treatise on the Cat."
- Sarcoptic Mange Remedy 60c
- Ketraline Distemper Liquid..... 60c
- Ketraline Distemper Tablets 60c
- Tonic Catnip and Condition Tablets 60c
- Alterative Tablets—Blood Purifier..... 60c
- Carminative Digestive Tablets 60c
- Laxative Tablets 60c
- Worm Tablets 60c
- Tape Worm Expeller Tablets..... 60c
- Vermifuge Liquid 60c
- Canker Lotion Tablets 60c
- Eye Lotion Tablets 60c
- Sedative Fit Tablets 60c
- Cough Syrup 60c
- Bowel Constrictant 60c
- Mouth Wash 60c
- Wash and Disinfectant 25c
- Cat Soap 25c
- Cod Liver Oil \$1.00

POSTPAID

ANTROL FLEA and LICE POWDER



oz. can 25c)

A greatly improved flea and lice powder. Absolutely harmless to pets, but deadly to fleas, lice and similar parasites. It is the fastest killing powder on the market and contains certain ingredients that continue their work for approximately 24 hours after powder is applied. Odorless and absolutely non-irritant to pets. (1-oz. can 15c) (2-oz. can 25c) (12 oz. can \$1.00) postpaid.

PULVEX

The Popular Flea Powder

Pulvex kills all the fleas and lice instead of only stupefying them, allowing them later to reinfest the animal. It is absolutely harmless even if swallowed. Pulvex is ideal for cats and birds as well as dogs.

For Canaries— $\frac{3}{4}$ oz. can 25c, Puff gun 35c, postpaid.

For Animals—2 oz. can 50c, 12 oz. \$1.25; 5 lb. \$6.00; postpaid.

PULVEX DOG SOAP

This fine English style dog soap will not only free a dog of all its fleas and lice but grooms as it cleans. It contains the same active flea-killing agent found in Pulvex Flea Powder. Cake (in metal container) 50c, by mail 55c.

G. H. Lee's Poultry and Stock Preparations

Prices are f. o. b. Los Angeles

Germozone

Germozone is without doubt one of the most widely used poultry medicines today. The regular use of Germozone in the drinking water of chicks and adult fowls prevents the spreading of disease and counteracts infection already existing.

Liquid—4 oz. bot. 40c; 12 oz. bot. 75c; 32 oz. bot. \$1.50; ½ gal. bot. \$2.50; 1 gal. bot. \$4.50.
Tablets—20 tablets 25c; 75 tablets 75c; 200 tables \$1.50.

Egg Maker

Lee's Egg Maker and Chick Grower will keep the fowls in a thrifty, vigorous condition and enable you to get a maximum production from them at all times.

2 lb. carton..\$.50 12 lb. pail..\$2.25
5 lb. carton.. 1.00 25 lb. pail.. 4.25
100 lb. drum....\$15.00

Leeaid

For Coccidiosis, an infectious disease of intestines in poultry, add 25 lbs. of Leeaid to 100 lbs. of dry mash. (12½ lb. pail \$3.00) (25 lb. drum \$5.00) (50 lb. drum \$9.50) (100 lb. drum \$18.00) f. o. b. Los Angeles.

Egg-O-Latum

For Preserving Eggs

This paste is easily applied by first smearing on the palms of the hand and then rubbing on to the egg. After applying store the eggs in cartons.

Jars sufficient for 50 doz. eggs..\$.50
Jars sufficient for 200 doz. eggs.. 1.00
Postage, 10c extra.

Lee's Louse Powder

Keeps the fowls free from lice and mites.
1 lb. can.....30c 2½ lb. can....60c

Lice Killer

The standard poultry house insecticide for years. It will rid the house of mites.

1 qt. can60c 1 gal. can....\$1.50
½ gal. can ..90c 5 gal. can.... 6.50

Lee's Dip and Disinfectant

A standardized coal tar creosote stock dip and disinfectant.

1 qt. can....75c ½ gal. can....\$1.25
1 gal. can.....\$2.00

Lee's Vapo-Spray

The most effective medicine for colds, coughs and pneumonia. Simply spray the air in the hen house at night.

1 qt. can....75c ½ gal. can....\$1.25
1 gal. can....\$2.25

Leemulsion

An emulsion given in wet mash or soaked oats in the cases of colds and flu in chickens. An effective companion of Vapo-Spray.

12 oz. bottle.\$1.25 ½ gal. bottle.\$3.75
32 oz. bottle. 2.25 1 gal. bottle. 7.00

Flyo Curo

This liquid preparation is sprayed lightly over the animals, forming a thin coating over the surface of the hair and protects the animals from insect attacks.

1 qt. can....60c ½ gal. can....90c
1 gal. can....\$1.50

Gizzard Capsules

The gizzard Capsule is five times as effective as worm medicine given in feed and water. It is as easy to give as a pill. It carries the strong medicines in their full strength direct to the gizzard.

Adult Size

50 capsules\$ 1.00
100 capsules 1.75
250 capsules 4.00
500 capsules 7.00
1,000 capsules 12.00

Chick Size

50 capsules\$.50
100 capsules90
250 capsules 2.00
500 capsules 3.50
1,000 capsules 6.00



Nicotine Gizzard Capsules

This special capsule has all the features of the Gizzard Capsule but contains only medicine for the removal of round worms in poultry.

100 capsules for adults\$.75
1,000 capsules for adults 4.50
100 capsules for chicks50
1,000 capsules for chicks 3.00

Poultry Nasal Syringes

Syringe specially designed for applying Germozone in the case of Swelled Head in poultry. Each 75c.

Syringes (Poultry)

Made especially to administer medicine directly into the crop of the chicken. Each 35c.

Dr. Hess' Poultry and Stock Preparations

Prices are f. o. b. Los Angeles

Dr. Hess' Poultry Pan-a-min

Pan-a-min, formerly known as Panacea, should be fed regularly the year round to obtain the best results from your flock. Car loads of this proven food tonic are sold in the large poultry districts of California. It is an excellent tonic for moulting time, is an egg producer and is an economical and highly satisfactory food. Prices:

3 lb. pkg.\$.50 15 lb. pkg.\$2.00
7 lb. pkg. 1.00 25 lb. pkg. 3.00
100 lb. drum\$10.50

Poultry Ver-mi-trol

(For Worms in Poultry)

Ver-mi-trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two 10-day courses, three weeks apart with Pan-a-min fed regularly.

4 lb. pkg., 50 hen size\$ 1.25
10 lb. pkg., 125 hen size 2.75
25 lb. pkg., 300 hen size 6.25
100 lb. drum 22.50

Black Leaf Worm Powder

An odorless, tasteless, dry nicotine compound, non-toxic to poultry. Mixed with food it passes unchanged to the intestines where the large roundworm is located. There the nicotine is immediately released, killing roundworm.

¼ lb. (treats 100 birds).....\$.65
1½ lb. (treats 600 birds)..... 2.50
3 lb. (treats 1,200 birds)..... 4.25
"BLACK LEAF" WORM PELLETS—
Same as above but for treatment of individual birds. (100 size 65c) (600 size \$2.50) (1,000 size \$4.25).

Poultry Tablets

While there is no absolute cure for roup, Dr. Hess' Poultry Tablets are of high value in treating locally the swellings incident to the disease. The tablets are used as a local antiseptic and to medicate the drinking water.

100 tablets...50c 225 tablets...\$1.00

Chick Tablets

Most diarrhea conditions in chicks are the result of improper feeding or brooding and can be corrected by Dr. Hess' Chick Tablets.

100 tablets...50c 225 tablets...\$1.00

Instant Louse Killer

Kills lice on contact on stock and poultry. Easily applied by putting in dust bath. It is non-poisonous and may be used on edible plants and flowers for plant lice. In handy sifting top cans.

1 lb. pkg. ..25c 2½ lb. pkg. ..50c

Antiseptic Powder

For treatment of cattle for wire-cuts, scratches, galls, and wounds. Equally valuable for household use.

4 oz. can....25c 10 oz. can....50c

Ezell's Compound

For simple colds among poultry. It relieves a condition caused by roup, pneumonia and bronchitis, and keeps the poultry death rate down to a low minimum.

Small size (for 150 fowls).....\$1.00
Large size (for 750 fowls)..... 3.00
Cannot be mailed.

Stock Tonic

This product has been serving the dairy interests of the country for upwards of thirty-five years. A summary of many comparative tests, covering three whole years, shows that cows receiving Dr. Hess Stock Tonic produce on the average 54.9% more profit than cows not getting the Tonic.

5 lb. pkg. ..\$.75 25 lb. pkg. ..\$ 3.00
15 lb. pkg. .. 2.00 100 lb. drum.. 10.50

Dip and Disinfectant

A standardized product with an established carbolic acid co-efficient. Valuable about barns and stables; kills hog lice and other parasites and keeps down foul odors.

¼ gal. can..\$.75 5 gal. can..\$ 9.00
½ gal. can.. 1.25 30 gal. drum 41.00
1 gal. can.. 2.25 50 gal. drum 65.00

Fly Spray

Both a fly killer and repeller. It will kill flies in stable and barn and protect cows and other animals in the pasture.

1 gal. can\$ 2.25
5 gal. can 9.00
30 gal. drum 44.00
50 gal. drum 67.50

Walko Tablets

These tablets are used in the drinking water for baby chicks, from the time they emerge from the shell, as a preventative against such diseases as derive from common colds.

Small carton 50c Large carton \$1.00

LEG BANDS FOR POULTRY



Spir-ol Leg Bands are made in all colors and all sizes, and are put on and taken off like a key ring. Can't drop off. Colors are black, white, red, yellow, blue, green, purple, light blue, maroon and pink. In ordering please state color wanted, also name of breed. Leghorn, Rocks, Rhode Island Reds or Turkeys. It enables us to fill the order satisfactorily. Prices:

12 Bands for	\$.15 postpaid
25 Bands for .....	.25 postpaid
50 Bands for .....	.35 postpaid
100 Bands for .....	.65 postpaid
1000 Bands for	5.00 postpaid



Spir-ol Leg Bands

SPIR-OL BAND for Chick, Bantam and Pigeon size as follows: 12 for 15c; 50 for 30c; 100 for 50c; 1,000 for \$4.00. These bands come in the same colors as given above for Poultry Bands.

KWIK-ON LEG BANDS



Attractive and durable leg bands in all popular colors, made of aluminum. Can be fixed in a jiffy. Hold band between thumb and fore-finger of each hand at the cut, then twist to desired opening to place on leg; then close ends to make a perfect circle. Packed 100 to the carton—not less than 100 sold.

	100	1,000
No. 9—Leghorn size	\$.40	\$3.00
No. 10—Red Rocks .....	.45	3.25
No. 11—Large Rocks .....	.50	3.35
No. 12—Asiatics .....	.60	3.70
No. 13—Turkey Hens .....	.65	3.85

POSTPAID

FLAT ALUMINUM
LEG BANDS

These bands fit any variety fowls.

Price—(Numbers run from 1 to 1,000) (25 for 30c) (50 for 45c) (100 for 65c) postpaid.

ECLIPSE DOUBLE NUMBER COLORED—
For Chickens

In Unbroken Sets Only

Large double numbers on colored background. In 12 colors, three sizes. State breed and set. (12 for 35c) (25 for 65c) (50 for \$1.20) (100 for \$2.35) postpaid.

ELITE PIGEON BANDS

Carried in all colors and in unbroken sets only.



6 pairs.....	25c
12 pairs.....	50c
25 pairs.....	\$1.00
50 pairs.....	\$2.00

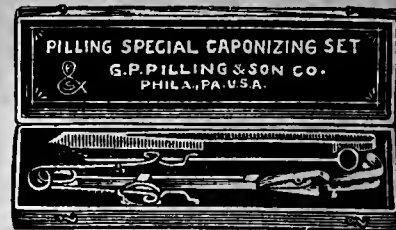
Postpaid

CAPONIZING SETS

This set is one of the latest design. It is a combination of tools that can be used with one hand and seldom causes the operator to slip and cause the loss of the bird.

We carry the following sets:
Pillings Cornell\$5.50
Pillings Farmer 4.00
Pillings Special 5.00

We suggest that you use either the Cornell or Farmer. They are packed in a fine oak case. Each set contains full instructions.



PILLING ANGULAR KILLING KNIFE



Showing the Angular Killing Knife

By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. 75c postpaid.

FRENCH POULTRY KILLING KNIFE

Every poultry raiser should have one of our Killing Knives. They are made of a finely tempered instrument steel with nicked handle; will last a lifetime. Don't wait. Send for one now. Sent securely packed by mail. 75c postpaid.



SEARCHLIGHT EGG TESTER



Infertile eggs in an incubator mean a loss of time and money. The testing of eggs is a very important part of incubation and a little expense at the beginning will pay well in the end. The Searchlight will do the job quickly and do it well. It should be a part of your equipment, whether you are operating one incubator or a dozen. Postpaid \$3.50.

A & M Egg Testers

No. 2—Tin with opening on side 40c postpaid.
No. 3—Tin made to fit any lamp, 50c postpaid.

POULTRY
PUNCHES

A Practical Punch for Marking Baby Chicks
Petty's, 25 ea. postpaid.

Number of Plants to Acre
Set at Regular Distances Apart

DISTANCE APART	No. Plants
1 ft. by 6 in.....	87,120
2 ft. by 6 in.....	43,560
2 ft. by 12 in.....	26,780
2 ft. by 18 in.....	14,520
2 1/2 ft. by 12 in.....	17,420
2 1/2 ft. by 18 in.....	11,616
2 1/2 ft. by 2 ft.....	8,712
3 ft. by 1 ft.....	14,520
3 ft. by 1 1/2 ft.....	9,924
3 ft. by 2 ft.....	7,260
3 ft. by 3 ft.....	4,840
4 ft. by 1 ft.....	10,890
4 ft. by 2 ft.....	5,445
4 ft. by 3 ft.....	3,630
4 ft. by 4 ft.....	2,722
5 ft. by 1 ft.....	8,712

DISTANCE APART

DISTANCE APART	No. Plants
5 ft. by 2 ft.....	4,356
5 ft. by 3 ft.....	3,904
5 ft. by 4 ft.....	2,178
5 ft. by 5 ft.....	1,742
6 ft. by 3 ft.....	2,420
6 ft. by 4 ft.....	1,815
6 ft. by 6 ft.....	1,200
7 ft. by 7 ft.....	888
8 ft. by 8 ft.....	680
9 ft. by 9 ft.....	537
10 ft. by 10 ft.....	435
11 ft. by 11 ft.....	360
12 ft. by 12 ft.....	302
14 ft. by 14 ft.....	222
15 ft. by 15 ft.....	193
16 ft. by 16 ft.....	170
17 ft. by 17 ft.....	150
18 ft. by 18 ft.....	134
19 ft. by 19 ft.....	120
20 ft. by 20 ft.....	108
25 ft. by 25 ft.....	69

DISTANCE APART

DISTANCE APART	No. Plants
30 ft. by 30 ft.....	48
33 ft. by 33 ft.....	40
40 ft. by 40 ft.....	27
50 ft. by 50 ft.....	12
60 ft. by 60 ft.....	17
66 ft. by 66 ft.....	10

Rule.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and product will be the number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.

Average Time Required
for Seeds to Sprout

Bean	5-10 days
Beet	7-10 "
Cabbage	5-10 "
Carrot	12-18 "
Cauliflower	5-10 "
Celery	10-20 "
Corn	5-8 "
Cucumber	6-10 "
Lettuce	6-8 days
Onion	7-10 "
Pea	6-10 "
Parsnip	10-20 "
Pepper	9-14 "
Radish	3-6 "
Tomato	6-12 "
Turnip	4-8 "

Plant radishes with slow growing vegetables to mark the rows for cultivation.

VEGETABLE CALENDAR FOR FIELD PLANTING

VARIETY	SEED PER ACRE	ROW APART	APART IN ROW	WHEN TO PLANT	TIME TO MATURE	APPROXIMATE YIELD PER ACRE
Artichoke.....	1 lb.	5 ft.	4 ft.	Oct. to Jan.	18 to 20 wks.	
Asparagus—roots.....	11000	4 ft.	1 ft.	Dec. to Feb.	1 year	
Asparagus, seed.....	3 lbs.	2 ft.	Drill	Feb. to March	2 years	
Beans, bush.....	40 lbs.	2 ft.	Drill to 6 in.	March to Aug. 1st	8 to 12 wks.	3 tons
Beans, pole.....	30 lbs.	3 ft.	12 in.	April to July 1st	10 to 12 wks.	4 tons
Lima, bush.....	50 lbs.	32 in.	Drill to 6 in.	April to Aug. 1	10 to 12 wks.	4 tons
Lima, pole.....	40 lbs.	3 ft.	12 in.	April to Aug. 1	12 to 14 wks.	4 tons
Beets, table.....	7 lbs.	Double row	Drill	All Year	10 to 12 wks.	12 tons
Beets, stock.....	8 lbs.	16 in.	Drill	Oct. to May 1	14 to 18 wks.	50 tons
Carrots, table.....	3 lbs.	Double row	Drill	All year	10 to 12 wks.	12 tons
Carrots, stock.....	3 lbs.	16 in.	Drill	Oct. to May 1	12 to 18 wks.	18 tons
Cabbage, plants.....	8000	30 in.	18 in.	All year	14 to 16 wks.	12 tons
Cabbage, seed.....	4 oz.	8 in. seed bed	Drill	All year	20 to 26 wks.	12 tons
Cauliflower, plants.....	7000	3 ft.	2 ft.	May to Feb. 1	14 to 16 wks.	
Cauliflower, seed.....	4 oz.	8 in. seed bed	Drill	May to Feb. 1	20 to 24 wks.	500 doz.
Celery, plants.....	30,000	30 in.	6 in.	March to Aug. 1	16 to 18 wks.	
Celery, seed.....	¼ lb.	8 in. seed bed	Drill	March to Aug. 1	24 to 26 wks.	2000 doz.
Corn, Sweet.....	10 lbs.	3 ft.	18 in.	March to Aug. 1	10 to 12 wks.	400 box
Cucumbers.....	2 lbs.	4 ft.	3 ft.	March to Sept. 1	10 to 12 wks.	600 box
Endive (Chicoree).....	2 lbs.	Double row	Drill and thin to 10 in.	Sept. to Feb. 1	14 to 18 wks.	2000 doz.
Eggplant, plants.....	7,000	3 ft.	2 ft.	April to July 1	10 to 12 wks.	
Eggplant, seed.....	¼ lb.	Hot bed	8 in.	Dec. to Feb. 1	18 to 20 wks.	10 tons
Kale.....	2 lbs.	3 ft.	Drill	Sept. to March 1	8 to 10 wks.	
Kohl Rabi.....	2 lbs.	Double row	Drill	Sept. to March 1	10 to 12 wks.	12 tons
Lettuce.....	2 lbs.	Double row	Drill and thin to 10 in.	All year	12 to 15 wks.	500 crates
Musk Melon.....	1 lb.	6 ft.	4 ft.	Feb. 15 to June 15	14 to 18 wks.	400 crates
Water Melon.....	1 lb.	9 ft.	8 ft.	Feb. 15 to June 15	16 to 20 wks.	15 tons
Casaba.....	1 lb.	8 ft.	8 ft.	Feb. 15 to June 15	16 to 20 wks.	12 tons
Okra.....	6 lbs.	3 ft.	18 in.	March to Aug. 1	10 to 12 wks.	
Onion Seed.....	2 lbs.	Double row	Drill	Sept. to April 1	24 to 28 wks.	200 crates
Onion Sets.....	250 lbs.	Double row	4 in.	Dec. to Feb. 1	14 to 18 wks.	
Parsley.....	4 lbs.	Double row	Drill	Aug. to April 1	12 to 14 wks.	
Parsnip.....	5 lbs.	2 ft.	Drill	Aug. to March 1	14 to 18 wks.	400 sks.
Peas.....	50 lbs.	30 in.	Drill to 6 in.	Sept. to March 1	14 to 20 wks.	4 tons
Pepper, plant.....	9,000	3 ft.	18 in. or drill seed in.	April to June 1	10 to 12 wks.	
Pepper, seed Field planting.....	1	3 ft.	field and thin to 18 in.	Jan. to April 1	18 to 20 wks.	10 tons
Pepper seed in seed bed.....	6 oz.	8 in.	drill	Jan. to April		
Potatoes, Irish.....	600 lbs.	3 ft.	1 ft.	Feb. to Sept. 1	10 to 14 wks.	100 sks.
Potatoes, Sweet, plants.....	12,000	3 ft.	1 ft.	April to July 1	10 to 12 wks.	
Potatoes, Sweet, seed.....	400 lbs.	Hotbed		Jan. to Feb. 1	18 to 20 wks.	150 sks.
Pumpkin.....	1 lb.	10 ft.	10 ft.	April to July 1	12 to 14 wks.	20 tons
Radish.....	12 lbs.	Double row	Drill	All year	4 to 8 wks.	
Rhubarb, roots.....	5,445	4 ft.	2 ft.	Sept. to April 1	8 to 10 wks.	
Rhubarb, seed.....	½ lb.	Double row	Drill	Jan. to April 1	16 to 20 wks.	
Roselle.....	3 lbs.	5 ft.	3 ft. thin to 1 plant	April to May	18 to 20 wks.	
Spinach.....	12 lbs.	Double row	Drill to 6 in.	Oct. to April 1	8 to 12 wks.	6 tons
Squash, Summer.....	2 lbs.	4 ft.	3 ft.	March to Aug. 1	10 to 12 wks.	
Squash, Winter.....	1½ lb.	10 ft.	6 ft.	April to Aug. 1	12 to 14 wks.	12 ton
Salsify.....	6 lbs.	Double row	Drill	Sept. to April 1	14 to 18 wks.	8 tons
Tomato Plants.....	1,200	6 ft.	6 ft.	March to Aug. 1	12 to 14 wks.	10 ton
Tomato, seed.....	2 oz.	Hot bed, Jan.	Out door drill 10 in.	March to June 1	18 to 20 wks.	
Turnip.....	3 lbs.	Double row	Drill	All year	10 to 12 wks.	12 tons

CALENDAR FOR FORAGE AND FIELD CROPS

VARIETY	SEED PER ACRE	HOW TO PLANT	YIELD OF FORAGE	YIELD OF GRAIN LBS.
Alfalfa.....	20 lbs.	Drill or Broadcast.....	8 to 10 tons.....	600
Alfalfa.....	10 lbs.	Drill or Broadcast.....	3 tons hay or pasture.....	
Beans—Bush.....	25 to 40 lbs.	Drill in rows 2 ft. apart.....		1500 to 2000
“ Lima.....	50 to 60 lbs.	Drill in rows 3 ft. apart.....		1500 to 2000
“ Windsor.....	75 to 100 lbs.	Drill in rows 2 ft. apart.....	Cover crop.....	2000
Beets—Stock.....	8 lbs.	Drill in rows 1 ft. apart.....	20 to 25 tons beets.....	
Cane or Sorghum.....	5 to 40 lbs.	Drill 5 or broadcast 40.....	15 to 20 tons green fodder.....	
Carrots—Stock.....	4 lbs.	Drill in rows 18 in. apart.....	20 to 25 tons carrots.....	
Clover—Burr.....	20 lbs.	Drill or Broadcast.....	Pasture or cover crop.....	
“ Hubam.....	10 lbs.	Drill or Broadcast.....	Pasture or cover crop.....	
Corn—Indian.....	10 lbs.	Drill 2 ft. apart in rows 3 ft. apart.....		3000 to 4000
“ Ensilage.....	40 lbs.	Drill 1 ft. apart in rows 30 in. apart.....	20 to 40 tons ensilage.....	
“ Broom.....	5 lbs.	Drill in rows 3 ft. apart.....	½ ton broom straw.....	1500
“ Egyptian.....	3 lbs.	Drill in rows 3 ft. apart.....	2 tons dry.....	2500 to 4000
“ Pop.....	6 lbs.	Drill 1 ft. apart in rows 30 in. apart.....		1500 to 2000
Cotton.....	15 lbs.	Drill 18 in. apart in rows 4 ft. apart.....	1 to 1½ bales and seed.....	
Cow Peas.....	40 lbs.	Drill 1 ft. apart in rows 3 ft. apart.....	Pasture or cover crop.....	1500
Feterita.....	3 lbs.	Drill in rows 3 ft. apart.....	2 tons dry.....	2500 to 4000
Grain—Barley.....	80 lbs.	Drill or Broadcast.....	2 to 4 tons hay.....	2000 to 3000
“ Buckwheat.....	45 lbs.	Drill.....	Cover crop.....	1500
“ Flax.....	30 lbs.	Drill.....	Fiber.....	2500
“ Oats.....	80 lbs.	Drill or Broadcast.....	3 tons hay.....	2000
“ Rice.....	80 lbs.	Drill.....		3000
“ Rye.....	60 lbs.	Drill.....	Pasture or cover crop.....	2000
“ Wheat.....	60 lbs.	Drill or Broadcast.....	2 tons.....	2000
Grasses—Bermuda.....	5 lbs.	Broadcast.....	Pasture.....	
“ Brome.....	20 lbs.	Broadcast.....	Pasture mixture.....	
“ Fescue.....	20 lbs.	Broadcast.....	Pasture Mixture.....	
“ Italian Rye.....	30 lbs.	Broadcast.....	Hay and pasture (damp land).....	
“ Kentucky Blue.....	50 lbs.	Broadcast.....	Pasture Mixture.....	
“ Orchard.....	25 lbs.	Broadcast.....	Pasture Mixture.....	
“ Paspalum.....	10 lbs.	Broadcast.....	Cut 1½ tons per acre	
“ Perennial Rye.....	20 lbs.	Broadcast.....	4 times (damp land).....	
“ Red Top.....	14 lbs.	Broadcast.....	Hay and Pasture.....	
“ Rhodes.....	12 lbs.	Broadcast.....	Pasture Mixture.....	
“ Rhodes.....	12 lbs.	Broadcast.....	Cut 2 tons per acre 3	
“ Rhodes.....	12 lbs.	Broadcast.....	times or pasture.....	
Melilotus.....	20 lbs.	Drill or broadcast.....		
Sudan.....	5 to 25 lbs.	Drill 5 or broadcast 25.....	12 tons hay or pasture.....	
Sorghum.....	8 lbs.	Drill in rows 30 in. apart.....	15 tons green.....	
Sunflower.....	5 lbs.	Drill in rows 3 ft. apart.....		2000
Vetch.....	30 to 40 lbs.	Drill in rows 1 ft. apart or broadcast.....	Pasture or cover crop.....	
Wonder Forage.....	5 to 25 lbs.	Drill 5 or broadcast 25.....	12 tons hay or pasture.....	

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A & M Planting Calendar for Southern California and Similar Climates

JANUARY

VEGETABLES—Seeds of Beets, Brussels Sprouts, Cabbage, Carrots, Cress, Egg Plant, Endive, Kale, Kohl Rabi, Lettuce, Mustard, Onions, Parsley, Parsnip, Peas, Peppers, Potatoes, Radish, Rhubarb, Salsify, Spinach (Winter), Swisschard, Tomatoes, Turnips.

FLOWERS—Sow seeds in open ground: *Acroclinium*, *Alyssum*, *Bartonia*, *Calendula*, *Calliopsis*, *Candytuft*, *Centaurea*, Annual *Chrysanthemums*, *Clarkia*, *Godetia*, *Lupin*, *Mignonette*, *Nigella*, *Poppies*, *California Poppy*, *Scabiosa*, *Schizanthus*, Wild Flower Mixture, Sweet Peas, also Lawn Grasses.

Sow in seed flats—*Aquilegia*, *Delphinium*, *Larkspur*, *Phlox*, *Snapdragon*.

BULBS of *Amaryllis*, *Agapanthus*, *Gladiolus*, *Liliums*, *Narcissus*, *Ranunculus*, *Tuberoses*, *Tuberous Begonia*.

FEBRUARY

VEGETABLES—Seeds of Asparagus, Beets, Beans, Cabbage, Carrots, Celery, Egg Plant, Endive, Kale, Kohl Rabi, Lettuce, Mustard, Onions, Parsley, Parsnips, Peas, Peppers, Potatoes, Radish, Rhubarb, Salsify, Spinach (Summer), Squash, Swisschard, Tomatoes, Turnips.

FLOWERS—Sow seeds in open ground: *Acroclinium*, *African Daisy*, *Alyssum*, *Bartonia*, *Calendula*, *Calliopsis*, *Candytuft*, *Centaurea*, *Clarkia*, Early Flowering *Cosmos*, *California Poppy*, *Dahlia*, *Gypsophila*, *Hunnemannia*, *Larkspur*, *Linaria*, *Linum*, *Lupins*, *Mignonette*, *Nasturtium*, *Nemophila*, *Nigella*, *Poppies*, *Phlox*, *Salpiglossis*, *Schizanthus*, *Scabiosa*, Sweet Peas, Wildflower Mixture, also Lawn Grasses.

Sow in seed flats—*Agathes*, *Ageratum*, *Asters*, *Aquilegia*, *Begonia*, *Coreopsis*, *Delphinium*, *Gaillardia*, *Godetia*, *Hollyhock*, *Lobelia*, *Myosotis*, *Nemesia*, *Pentstemon*, *Petunia*, *Perennial Poppies*, *Shasta Daisy*, *Stocks* and *Viola Cornuta*.

BULBS of *Amaryllis*, *Cannas*, *Gladiolus*, *Liliums*, *Tuberoses*, *Tuberous Begonia*.

MARCH

VEGETABLES—Seeds of Asparagus, Beets, Beans, Cabbage, Carrots, Casaba, Celery, Corn, Cucumbers, Egg Plant, Endive, Kale, Lettuce, Melons, Okra, Onion, Onion Sets, Parsley, Parsnip, Peas, Peppers, Potatoes, Pumpkin, Radish, Rhubarb, Roselle, Salsify, Spinach (Summer), Squash, Swisschard, Tomatoes.

FLOWERS—Sow seeds in open ground: *Acroclinium*, *Ageratum*, *Alyssum*, *Arctotis*, *Amaranthus*, *Balsam*, *Bartonia*, *Brachycome*, *Calendula*, *Calliopsis*, *Candytuft*, *Celosia*, *Centaurea*, *Clarkia*, *Dahlia*, *Painted Daisy*, Early Flowering *Cosmos*, *Dahlia Seed*, *Daisies*, *Four o'Clocks*, *Godetia*, *Gomphrena*, *Gypsophila*, *Helichrysum*, *Hunnemannia*, *Kochia*, *Larkspur*, *Linum*, *Lupin*, *Marigold*, *Mignonette*, *Nasturtium*, *Nemophila*, *Nigella*, *Phlox*, *Salpiglossis*, *Scabiosa*, *Schizanthus*, *Sunflower*, Sweet Peas, Vine Seeds, also Lawn Grasses.

Sow in seed flats—*Aquilegia*, *Asters*, *Begonia*, *Bellis*, *Canterbury Bells*, *Carnation*, *Coleus*, *Coreopsis*, *Daisy*, *Delphinium*, *Didiscus*, *Gaillardia*, *Gerbera*, *Geum*, *Heliotrope*, *Lobelia*, *Matricaria*, *Nemesia*, *Nicotiana*, *Pentstemon*, *Petunia*, *Salvia*, *Shasta Daisy*, *Statice*, *Stocks*, Sweet *William*, *Verbena*, *Viola*, *Wallflower*, Vine Seeds.

BULBS of *Cannas*, *Dahlias*, *Gladiolus*, *Tuberoses*.

APRIL

VEGETABLES—Seeds of Asparagus, Beets, Beans, Carrots, Casaba, Cabbage, Cauliflower, Celery, Corn, Cucumber, Egg Plant, Kale, Lima Beans, Lettuce, Melons, Okra, Onions, Parsley, Parsnip, Peppers, Potatoes, Pumpkin, Radish, Rhubarb, Salsify, Spinach (Summer), Squash, Swisschard, Tomatoes.

FLOWERS—Sow in open ground: *Abronia*, *Acroclinium*, *Ageratum*, *Amaranthus*, *Arctotis*, *Grandis*, *Balsam*, *Candytuft*, *Calendula*, *Calliopsis*, *Celosia*, *Centaurea*, Early *Cosmos*, *Dahlia Seed*, *Gypsophila*, *Helichrysum*, *Hunnemannia*, *Kochia*, *Larkspur*, *Mathiola*, *Mignonette*, *African Marigold*, *Nigella*, *Nicotiana*, *Nasturtium*, *Oenothera*, *Painted Daisy*, *Petunia*, *Portulaca*, *Phlox*, *Drumondil*, *Rhodanthe*, *Salpiglossis*, *Scabiosa*, *Sunflower*, *Valeriana*, *Verbena*, *Wallflower*, *Zinnia*, Vine Seeds, also Lawn Grasses.

Sow in seed flats—*Asters*, *Carnation*, *Delphinium*, *Didiscus*, *Geum*, *Gerbera*, *Lobelia*, *African Marigold*, *Nicotiana*, *Petunia*, *Primula*, *Salvia*, *Statice*, *Stocks*, *Verbena*.

BULBS of *Cannas*, *Dahlia*, *Gladiolus* and *Tuberoses*.

MAY

VEGETABLES—Seeds of Beets, Beans, Cabbage, Carrots, Casaba, Cauliflower, Celery, Corn, Cucumber, Kale, Lima Beans, Melons, Okra, Onions, Parsley, Parsnip, Peppers, Pumpkin, Radish, Rhubarb, Salsify, Spinach (Summer), Squash, Tomato, Swisschard.

FLOWERS—Sow in open ground: *Abronia*, *Ageratum*, *Alyssum*, *Amaranthus*, *Arctotis*, *Grandis*, *Balsam*, *Candytuft*, *Calliopsis*, *Cosmos*, *Celosia*, *Centaurea*, *Gypsophila*, *Helichrysum*, *Hunnemannia*, *Larkspur*, *African Marigold*, *Mignonette*, *Nasturtium*, *Nigella*, *Oenothera*, *Phlox*, *Drumondil*, *Painted Daisy*, *Portulaca*, *Salpiglossis*, *Scabiosa*, *Stevia*, *Sunflower*, *Zinnia*, Vine Seeds, also Lawn Grasses.

Sow in seed flats—*Asters*, *Carnation*, *Delphinium*, *Dianthus*, *Gaillardia*, *Geum*, *Gomphrena*, *Lobelia*, *Matricaria*, *Nicotiana*, *Petunia*, *Salvia*, *Schizanthus*, *Statice*.

BULBS of *Canna*, *Dahlia*, *Gladiolus*.

JUNE AND JULY

VEGETABLES—Seeds of Beets, Beans, Broccoli, Cabbage, Carrots, Casaba, Cauliflower, Celery, Corn, Cucumber, Melons, Okra, Parsley, Pepper Plants, Potatoes, Pumpkin, Radish, Spinach (Summer), Swisschard, Tomato.

FLOWERS—Sow seeds in the open ground: *Calendula*, *Candytuft*, Late *Cosmos*, *Centaurea*, *Daisies*, *Gypsophila*, *African Marigold*, *Nasturtium*, *Phlox*, *Portulaca*, *Salpiglossis*, *Zinnia*, Vine Seeds.

Sow in seed flats—*Cineraria*, *Delphinium*.

BULBS of *Gladiolus*.

AUGUST

VEGETABLES—Beets, Beans, early varieties, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Carrots, Corn, Cucumber, Endive, Kale, Kohl Rabi, Leek, Mustard, Onion, Parsley, Potatoes, Radish, Salsify, Spinach (Summer), Swisschard, Tomatoes, Turnips.

FLOWERS—Sow seeds in open ground: *Calendula*, *Centaurea*, Early *Cosmos*, *Gypsophila*, Winter Flowering Sweet Peas, French *Marigold*, *Nasturtium*, *Phlox*, *Salpiglossis*, *Zinnia*.

Sow in seed flats—*Aquilegia*, *Carnation*, *Canterbury Bells*, *Coreopsis*, *Cineraria*, *Delphinium*, *Digitalis*, *Forget-Me-Not*, *Gaillardia*, *Hollyhock*, *Pansy*, *Pentstemon*, *Perennial Poppies*, *Phlox*, *Shasta Daisy*, *Snapdragon*, *Stocks*, *Verbena*, *Viola*, *Wallflower*.

BULBS of *Calla*, *Freesia*, *German Iris*, *Ornithogalum*, *Oxalis*, *Ranunculus*.

SEPTEMBER

VEGETABLES—Seeds of Beets, Beans, Broccoli, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Cucumber, Endive, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnip, Peas, Potatoes, Radish, Salsify, Spinach (Winter), Squash, Swisschard, Turnips.

FLOWERS—Sow seeds in open ground of *Bartonia*, *Calendula*, *Centaurea*, Early *Cosmos*, *Dimorphotheca*, *Gypsophila*, French *Marigolds*, *Larkspur*, *Linum*, *Nasturtium*, *Nemesia*, all *Poppies*, *Salpiglossis*, Winter Sweet Peas, Wildflower Mixture.

Sow in seed flats—*Aquilegia*, *Carnation*, *Canterbury Bells*, *Coreopsis*, *Cineraria*, *Daisies*, *Delphinium*, *Digitalis*, *Forget-Me-Not*, *Gaillardia*, *Geum*, *Hollyhock*, *Pansy*, *Petunia*, *Pentstemon*, *Phlox*, *Pyrethrum*, *Scabiosa*, *Snapdragon*, *Stocks*, *Verbena*, *Viola*, *Wallflower*.

BULBS of *Allium*, *Anemone*, *Baby Glads*, *Calla*, *Dutch and German Iris*, *Freesia*, *Lilium Candidum*, *Ornithogalum*, *Oxalis*, *Ranunculus*, *Watsonia*.

OCTOBER AND NOVEMBER

VEGETABLES—Seeds of Beets, Broccoli, Brussels Sprouts, Cabbage, Carrots, Cress, Endive, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnip, Peas, Radish, Salsify, Spinach, Swisschard, Turnips.

FLOWERS—Sow seeds in open ground: *Acroclinium*, *Alyssum*, *Bartonia*, *Candytuft*, *Calendula*, *Centaurea*, *Clarkia*, *California Poppy*, *Dimorphotheca*, French *Marigolds*, *Godetia*, *Gypsophila*, *Larkspur*, *Linum*, *Lupin*, *Mignonette*, *Nemesia*, *Nemophila*, *Nigella*, *Painted Daisy*, All *Poppies*, *Ranunculus seed*, *Schizanthus*, Winter Flowering Sweet Peas, Wild Flower Mixture, also Lawn Grasses.

Sow in seed flats—*Aquilegia*, *Canterbury Bells*, *Carnation*, *Coreopsis*, *Double Daisy*, *Delphinium*, *Digitalis*, *Forget-Me-Not*, *Gerbera*, *Gaillardia*, *Geum*, *Hollyhock*, *Pansy*, *Pentstemon*, *Petunia*, *Phlox*, *Pyrethrum*, *Scabiosa*, *Shasta Daisy*, *Snapdragon*, *Stocks*, Sweet *William*, *Verbena*, *Viola*, *Wallflower*.

BULBS of *Anemones*, *Amaryllis*, *Baby Glads*, *Callas*, *Crocus*, *Dutch and German Iris*, *Freesias*, *Hyacinths*, *Ixias*, *Narcissus*, *Native California Bulbs*, *Oxalis*, *Ranunculus*, *Sparaxis*, *Tulips*, *Watsonias*, *Easter Lilies*.

DECEMBER

VEGETABLES—Seeds of Beets, Brussels Sprouts, Cabbage, Carrots, Cress, Endive, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnips, Peas, Potatoes, Radish, Salsify, Spinach (Winter), Swisschard, Turnips.

FLOWERS—Sow seed in open ground: *Acroclinium*, *Alyssum*, *Bartonia*, *Calendula*, *Candytuft*, *Calliopsis*, *Clarkia*, Annual *Chrysanthemums*, *California Poppy*, *Dianthus*, *Lupin*, *Mignonette*, *Nigella*, *Nemesia*, *Poppies*, Standard Sweet Peas, *Schizanthus*, *California Wild Flowers*, also Lawn Grasses.

Sow in seed flats—*Aquilegia*, *Larkspur*, *Pansy*, *Phlox*, *Snapdragon*, *Stocks*.

BULBS of *Amaryllis*, *Callas*, *Gladiolus*, *Hyacinths*, *Narcissus*, *Ranunculus*, *Tulips*, *Lilies*.

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